# **Site Characterization Report**

# Oak Mitsui 80 First Street Hoosick Falls, New York

# NYSDEC Site No. 442052

#### **Prepared** for:

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May 2020

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# CERTIFICATION

#### For CHA Consulting, Inc. (Responsible for the Soil Characterization):

I, Scott M. Smith, certify that I am currently a NYS registered professional engineer and that the soil characterization portion of this Site Characterization Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10), and that all activities were performed in full accordance with the DER-approved work plan and any DER-approved modifications.

I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law. I, the undersigned, of CHA Consulting, Inc. have been designated by the Site owner to sign this certification for the soil characterization portion of this Site Characterization Report.

CHA Consulting, Inc. was retained by Oak Mitsui to perform a scope of work related to soil characterization only. CHA was the author of sections:

- 1.1
- 2.1, 2.2, 2.3
- 3.1.1, 3.1.2, 3.2.2, 3.2.3
- 4.1, 4.2, 4.3, 4.4, 4.15
- 5.1, 5.2, 5.3, 5.4
- 6.1
- 7.0
- 8.0

(Professional Seal)



Scott M. Smith, P.E. Printed Name of Certifying Engineer

Signature of Certifying Engineer

May 14, 2020 Date of Certification

083885 NYS Professional Engineer Registration Number

CHA Consulting, Inc. Company

Associate Vice President

# CERTIFICATION

#### For ERM (Responsible for the Groundwater Characterization):

I, Chris W. Wenczel, certify that I am currently a Qualified Environmental Professional as defined in 6 NYCRR Part 375 and that this Site Characterization Groundwater Investigation was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10).

ERM Consulting & Engineering, Inc. was retained by Honeywell to perform a scope of work related to groundwater characterization only. ERM was the author of sections:

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- 5.5, 5.6, 5.7, 5.8, 5.9, 5.10
- 6.1, 6.2, 6.4, 6.5, 6.6, 6.7

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Date: May 12, 2020

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# LIST OF ACRONYMS & ABBREVIATIONS

AMSL	Above Mean Sea Level
ASP	Analytical Services Protocol
ASTM	American Society of Testing & Materials
CAMP	Community Air Monitoring Plan
CFR	Code of Federal Regulations
DUSR	Data Usability Summary Report
ELAP	Environmental Laboratory Approval Program
ESA	Environmental Site Assessment
eV	Electron Volts
GC/MS	Gas Chromatograph/ Mass Spectrometer
GPR	Ground Penetrating Radar
HDPE	High Density Polyethylene
ICP	Inductively Coupled Plasma
IDW	Investigation Derived Waste
MS/MSD	Matrix Spike/Matrix Spike Duplicate
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
NYSDOT	New York State Department of Transportation
PCB	Polychlorinated biphenyl
PFAS	per- and polyfluoroalkyl substances
PFOA	perfluorooctanoic acid
PFOS	perfluorooctane sulfonic acid
PID	Photoionization Detector
PPE	Personal Protective Equipment
PPM	Parts Per Million
PVC	Polyvinyl Chloride
REC	Recognized Environmental Condition
SCG	Standard, Criteria, and Guidance
SVOC	Semivolatile Organic Compound
TAL	Target Analyte List
TCL	Target Compound List
TCLP	Toxicity Characteristic Leaching Procedure
TOC	Total Organic Carbon
USEPA	United States Environmental Protection Agency
UST	Underground Storage Tank
VOC	Volatile Organic Compound
µg/Kg	Microgram per Kilogram
µg/L	Microgram per Liter
mg/Kg	Milligram per Kilogram
mg/L	Milligram per Liter

# **1.0 INTRODUCTION**

Oak Mitsui Technologies, LLC (Oak Mitsui) retained CHA Consulting, Inc. (CHA) and Honeywell International Inc. (Honeywell) retained ERM Consulting & Engineering, Inc. (ERM) to undertake certain investigations and jointly prepare this Site Characterization (SC) Report for the Oak Mitsui property located at 80 First Street in Hoosick Falls, New York (Site). The location of the Site is shown on Figure 1.

Oak Mitsui entered into an Order on Consent (Order) with the New York State Department of Environmental Conservation (NYSDEC) for the Site on September 8, 2017. The Order required the performance of a SC for the Site.

Oak Mitsui performed the soil component of the SC while Honeywell agreed to perform the groundwater component of the SC under an Addendum to the June 3, 2016 Order on Consent and Administrative Settlement Index Number CO 4-20160415-79 dated November 13, 2017.

The Site has been assigned Site No. 442052 and classified as a "P-Site" (sites that have the potential to be listed on the Registry of Inactive Hazardous Waste Disposal Sites) within the NYSDEC State Superfund Program.

The primary goals of the Order are to appropriately characterize the soil and groundwater quality at the Site, and implement any necessary remedial work related to on-site contamination, including any necessary Interim Remedial Measures (IRMs).

Prior to commencement of SC activities, CHA prepared a *Site Characterization Work Plan* (Work Plan), dated April 2018, that outlined the procedures and protocols to be utilized in conducting a scope of work that would provide the necessary field data to evaluate soil quality at the Site. ERM similarly prepared a Site Characterization Work Plan - Groundwater Investigation, dated 12 July 2018 to evaluate groundwater quality at the Site.

The Work Plans were prepared based on discussions between Oak Mitsui, Honeywell and the NYSDEC, and in accordance with *DER-10/Technical Guidance for Site Investigation and Remediation*, issued by the Division of Environmental Remediation (May 2010). The Work Plans were approved by the NYSDEC in its letters dated April 30, 2018 and August 30, 2018, respectively (Appendix A).

A second phase of the groundwater characterization was proposed in ERM's Geologic Boring and Monitoring Well Location Plan, dated 1 May 2019 that was approved by NYSDEC in its letter dated May 8, 2019.

On October 10, 2019, a work plan Ortho and Thermal Imaging of Portions of the Hoosic River Using Drone Technology in NYSDEC-required format was submitted to NYSDEC for approval. The purpose of this work was to identify river shoreline temperature anomalies that potentially represent groundwater discharging the Hoosic River. The work was approved by NYSDEC on October 29, 2019.

This report describes the activities undertaken as part of the SC and presents the findings of those activities. Conclusions and recommendations regarding the site characterization findings are also presented.

## 1.1 REPORT ORGANIZATION

This Report is organized as follows:

- Section 2 summarizes the Site background
- Section 3 summarizes the Site setting and physical characteristics;
- Section 4 summarizes the SC activities and methodologies;
- Section 5 summarizes the results
- Section 6 summarizes the findings
- Section 7 presents the conclusions and recommendations.
- Section 8 includes references

# 2.0 SITE BACKGROUND

#### 2.1 SITE DESCRIPTION

The Site consists of approximately 7.5 acres and is located in the Village of Hoosick Falls within Rensselaer County, New York. The Site is situated on the southern bank of the Hoosic River and is bounded to the east by the Pan Am Railroad line and to the south by residences. The Site is comprised of three (3) parcels, Tax Map Nos. 27.14-7-2, 27.14-7-3 and 27.14-8-19. According to the February 2018 Zoning Map of the Village of Hoosick Falls (Barton and Loguidice, D.P.C.), parcels 27.14-7-3, 27.14-8-19, and the northern portion of parcel 27.14-7-2 are zoned Industrial; the southern portion of parcel 27.14-7-2 (the parking lot across First St) is zoned Commercial-Industrial; and parcel 27.14-7-2 (located on the east side of the railroad tracks) is zoned Residential.

The former Oak Mitsui on-Site operations included the production of copper foil; however, between 2014 and 2015, operations at the Oak Mitsui facility ceased and, in the summer of 2017, the on-Site buildings were demolished. The former building foundations were left in place. The Site is currently vacant and is surrounded on three sides by a chain link fence for security, with the railroad on the fourth. An aerial image showing the property boundaries is provided as Figure 2.

#### 2.2 SITE USE HISTORY

According to Sanborn Fire Insurance maps, the subject Site was historically utilized for industrial purposes dating back to the late 1800's. Previous operations included a coal gas manufacturing facility (Hoosick Falls Gaslight Co., then Fidelity Gas Co.) from at least 1884 to at least 1910 on the southwestern portion of the Site and a foundry, a machine shop, a paper mill machine manufacturing facility (Nobel and Wood Machine Co.) from at least 1910 to 1976 on the northeastern side of the property. Oak Mitsui has occupied the Site since 1976 and the primary business of Oak Mitsui has been the manufacturing of electrodeposited copper foil.

From 1977 to 2001, the Site was used for high-volume manufacturing of copper foil and administrative offices. From mid-2001 to 2015, the Site was used for administrative offices and other activities as follows:

- From 2005 to 2010, the Site was used for pilot scale (research and development) copper foil electroplating. This process utilized some of the copper foil manufacturing equipment that had remained at the Site from the high-volume manufacturing period.
- From 2003 to 2015, an Oak Mitsui subsidiary, Oak Mitsui Technologies LLC (OMT) produced FaradFlex products at the Site. FaradFlex is produced by using heat & pressure to

bond two pieces of adhesive coated copper foil to either side an insulating film. The adhesive coated copper foil was purchased from suppliers in Japan and Malaysia. The insulating film was also purchased from overseas suppliers. A large heated hydraulic press was installed along with other sheeting & collating equipment to manufacture this product.

- In 2015, the FaradFlex manufacturing operations were moved to Malaysia. The remaining administration staffs were moved to leased office space at 8 John Street, Hoosick Falls. Oak Mitsui ceased plant operations, and in the summer of 2017, Site buildings were demolished.
- During the time Oak Mitsui was in operation, arsenic and copper were used in the manufacturing process. Chlorinated solvents were only used in nominal quantities and perand polyfluoroalkyl substances (PFAS) are not known to have been used at the Site.

## 2.3 **PREVIOUS INVESTIGATIONS**

CHA completed a limited subsurface environmental investigation (Phase 1 and Phase 2 Investigation) at the Site in 2016. The objectives of the investigation were to evaluate subsurface soil and groundwater conditions beneath areas of former manufacturing operations, general chemical storage, hazardous waste storage and certain building features (i.e. trenches, sumps). The investigation was completed to assist in determining the future use of the Site and the possible need for remediation during or after building demolition. Samples were analyzed for a variety of parameters including metals, volatile organic compounds (VOCs), semi-volatile VOCs (SVOCs), and polychlorinated biphenyls (PCBs). The findings of the investigation were presented in CHA's *Phase 1 and Phase 2 Investigation Report*, dated February 23, 2017, and are generally summarized below:

- The investigation identified metals contamination in the shallow soils located beneath the former on-Site building and surrounding areas. The detected metals concentrations were attributed to on-site operations and historical industrial uses dating back to the late 1800's. In addition, low levels of SVOCs were also detected in the shallow soils in limited areas of the Site. The SVOC concentrations were attributed to the historic fill that was observed in the subsurface during the investigation.
- The results indicated that the areas of highest metals concentrations within the subsurface soils included the areas of Treater 2 & 3, Treater 4 & 5, the Drum Deck Area, the Dissolving Area (Filter Side), the QA Lab Area, the 11-20 Spent Tank Area, the Waste Water Treatment Area and the MW-2 Area. In many of these locations, the detected metals concentrations decreased with depth.
- Groundwater was encountered at depths of approximately 13 to 16 feet below ground surface (bgs) across the Site and flows in a northerly direction toward the Hoosic River. Metals were either not detected or were detected at low levels that did not exceed NYSDEC Technical & Operational Guidance Series (TOGS) 1.1.1 standards and guidance values for Class GA groundwaters. In addition, the pH levels for the groundwater samples ranged from 6.9 to 7.1. These data indicate that the metals detected within the shallow soils had not resulted in adverse impacts to the quality of the groundwater at the Site.

CHA completed Interim Remedial Measures (IRMs) at the Site in the fall of 2017, based on the findings of the Phase 1 and Phase 2 Investigation. The IRM activities and findings were presented in CHA's *Construction Completion Report* dated April 2020. The IRMs included the following activities:

- Excavation of soil from 12 areas of concern where metals concentrations exceeded the New York State 6 NYCRR Part 375 Industrial Use Soil Cleanup Objectives (SCOs) during the Phase 1 and Phase 2 Investigation;
- Temporary on-site stockpiling of excavated soil;
- Collection of post-excavation confirmatory soil samples and laboratory analysis for metals;
- Collection of stockpiled soil samples and laboratory analysis for waste characterization parameters;
- Disposal of 3,684.5 tons of non-hazardous excavated soil at Seneca Meadows Landfill in Waterloo, New York;
- Removal of and treatment of water collected in a basement storage area of a former building; performance monitoring during treatment, and eventual discharge to the Hoosic River, and
- Backfilling the AOC excavations with fill approved by NYSDEC.

Some of the soil excavation areas coincided with areas/locations that were slated for soil sampling during the SC phase. During soil excavation activities in these areas, and with the approval of the NYSDEC, soil samples were collected and analyzed for SC purposes. The analytical results of these samples are discussed in later sections of this report.

# 2.4 RECORDS SEARCH

A records search and document review was performed in conformance with applicable requirements contained in the Order and Appendix 3A of NYSDEC's DER-10. A commercial data base search of local city/county, tribal, state, and federal records was purchased Environmental Data Resources, Inc. ("EDR"), to identify regulatory listings for the Site and regulatory-listed facilities in the vicinity of the Site. The records search was undertaken to identify relevant historical environmental documentation. A summary of the salient findings of the Records Search is presented in Table 1.

Historical information indicates two USTs were identified on the Site. NYSDEC Tank No. 1 is identified as a 15,000-gallon No. 2 fuel oil tank installed in 1961 and closed in-place prior to March 1991. Tank No. 2 is identified as a 1,500-gallon No. 6 fuel oil tank that installed in 1981 and was closed-in place on December 1, 1987.

# 3.0 SITE SETTING & PHYSICAL CHARACTERISTICS

## 3.1 SURFACE FEATURES

The three main parcels primarily consist of former building foundations surrounded by asphalt and chain link fencing. A portion of the largest parcel (27.14-7-2) is located immediately to the south of First Street and is currently an asphalt parking area surrounded by a chain-link fence. An earthen levee and the Hoosic River are located immediately west of the Site and the Site is adjoined by the Pan Am Railroad along its eastern boundary. Another portion of the largest parcel is located immediately east of the Pan Am Railroad line, at the north end of the Site, and is a vacant grassy lot.

#### 3.1.1 Soil

Native soil in the area, mapped by the New York State Geological Survey (NYSGS), is shown primarily as alluvium and lacustrine silt and clay (Caldwell and Dineen, 1987). Localized areas of soil include coarser material associated with channel sand and glacial outwash sand and gravel (Caldwell and Dineen, 1987).

Surface soil at the Site is primarily fill material from grade to between eight and 17 feet below ground surface. Underlying native soil consists predominantly of Hamlin silt loam (USDA, 2017).

## 3.1.2 Topography

Topography in the area of the Village of Hoosick Falls and the surrounding Town of Hoosick is characterized by upland hilly areas on either side of the Hoosic River valley, which generally trends from south-southeast to north-northwest (Figure 1). Elevations in this area range from approximately 400 to 1,200 feet above mean sea level (amsl) with the lowest elevations found along the Hoosic River. The topography at the Site is generally flat and surface elevations range approximately  $425 - 430\pm$  feet above mean sea level (AMSL).

## 3.2 SITE GEOLOGY & HYDROLOGY

## 3.2.1 Geologic Setting

Area-wide unconsolidated geologic material above bedrock (collectively referred to as overburden) typically consists of the following:

• Fine-grained alluvium (predominantly silt and clay) deposited in the Hoosic River valley.

- Coarse-grained alluvium, consisting predominantly of sand and gravel, also deposited in the Hoosic River valley.
- Glacio-lacustrine silt and clay.
- Glacial outwash (predominantly sand and gravel) deposited by glacial meltwaters.
- Glacial till, which is typically a dense, compact, poorly-sorted mixture of silt, clay, sand, gravel, cobbles, and boulders deposited by glaciers.

Bedrock in the area consists predominantly of dark gray to black slate mapped by the NYSGS as the Walloomsac Formation (Potter, 1972). The area has been subject to complex structural deformation including folds and thrust faults (Potter, 1972). The resulting bedrock stratigraphy and structural geology of the area is variable and complex. Additional information on the geology of the Site is found in Section 5.5 of this report.

# 3.2.2 Surface Waters

Surface water bodies in the area of the Village of Hoosick Falls and the surrounding Town of Hoosick include perennial streams, intermittent streams, ponds, and rivers (Figure 1). The major surface-water feature is the Hoosic River located immediately west and north of the Site. The river flows north northwestward through the center of the valley.

Based on review of Federal Emergency Management Agency (FEMA) mapping, the majority of the Site is outside the 100-year and 500-year flood zones. A portion of the Site along its western boundary is immediately adjacent to the Hoosic River and includes an earthen levee oriented northeast to southwest. A narrow portion of the Site immediately east of the levee is mapped within the 500-year flood zone. The area between the levee and the river is mapped within the 100-year flood zone.

# 3.2.3 Groundwaters

Based on previous on-site investigation activities, shallow groundwater is found in poorly-sorted silt, sand, gravel and fill materials at depths of approximately 9 feet to 16 feet below ground surface (bgs) (an average depth of 12 feet bgs). A thick layer of less permeable glaciolacustrine deposits (silt-rich clay) is situated between shallow groundwater and a deeper overburden aquifer, which consists of sand and gravel. The depth to bedrock is variable and was encountered at a maximum depth of approximately 140 feet bgs. Groundwater flow in bedrock occurs predominantly through joints, fractures, faults, and foliation in the bedrock.

Based on 2018 quarterly sampling events conducted by CHA and subsequent work by ERM, the groundwater generally flows in a northerly direction toward the Hoosic River. The water level variations throughout the year are most likely seasonal and do not indicate a change in the groundwater flow direction, which is continually to the north.

Additional information on the hydrogeology of the Site is found in Section 5.5 of this report.

## **3.2.4** Local Potable Water Sources

No private or public potable water wells are identified within 0.25 mile of the Site.

The Village of Hoosick Falls municipal well field is located approximately 0.8 south of the Site and to the east of the Hoosic River. The system is classified by the New York State Department of Health (NYSDOH) as "groundwater under the direct influence of surface water". The three currently active wells (Well Nos. 3, 6 and 7) have total well depths of 55, 59, and 70 feet, respectively (CHA, 2006). The system has an approximate capacity of 1.0 million gallons per day (gpd). Produced water is treated through a membrane filtration plant. Additionally, granular activated carbon (GAC) is utilized to remove perfluorooctanoic acid (PFOA) from the water since February 2016.

# 3.2.5 Former On-Site Production Wells

Up to seven former production wells on the Site were used by Oak Mitsui to supply on-site process water for Oak Mitsui's operations. Seven well locations are identified on a 1999 Site Plan provided by Oak Mitsui, with five of these locations identified as Wells "B", "C", "D" "E" & "F" and two unnamed. The two additional wells are indicated as "capped well" located to the south of Well C, and an unnamed well adjacent to Well B is located within the footprint of the former main facility building. Historical Site drawings note the production capacities for Well B as 50 gallons per minute (gpm); D as 150 gpm; E as 150 gpm and F as 50 gpm. Well C is listed as "obsolete". No other information has been located pertaining to the construction details or condition of these wells.

As part of the groundwater SC, additional efforts were unsuccessful to obtain drilling and construction records for the production wells from the drilling company whom reportedly installed the wells to determine suitability for potential future collection of groundwater samples. During the site characterization, borehole geophysics were performed in accessible wells. Additional information regarding this effort can be found in Section 4.10.

# 4.0 SITE CHARACTERIZATION ACTIVITIES & METHODOLOGIES

The most recent Site characterization field activities were completed during 2018 – 2019. The soil characterization activities consisted of the completion of exploratory test pits, the advancement of soil borings, and collection and laboratory analysis of soil samples to further characterize the Site at locations not addressed by sampling conducted during completion of the Interim Remedial Measures during the fall of 2017. Table 2 presents a summary of all soil samples collected and the rationale for collecting each sample.

Table 3 presents a summary of the groundwater site characterization activities that consisted of surface geophysical surveys, groundwater quality profiling using direct push Waterloo Advanced Profiling System (APS<sup>TM</sup>), exploratory soil borings, installation of groundwater monitoring wells, borehole geophysics in former water production wells, and collection and laboratory analysis of groundwater samples to further characterize groundwater quality beneath the Site.

For the purposes of the site characterization, the Site was split into two areas, designated as the East Side and the West Side (refer to the light blue, dotted line on Figure 3). The division was determined based on previous on-site operations; the East Side Site characterization activities focused on the area of the historical Oak Mitsui operations, and the West Side site characterization activities focused on the area of the historical coal gas manufacturing operations of the Hoosick Falls Gas Light Company and later the Fidelity Gas Company.

Field activities were conducted in accordance with United States Environmental Protection Agency (USEPA) and NYSDEC protocols, and the NYSDEC-approved Work Plan, which included Community Air Monitoring Plan (CAMP) to provide guidance and describe protocols for air monitoring during ground intrusive activities. Deviations from the Work Plan are summarized in this report. The specific field activities that were completed as part of the site characterization are described in the following sections. Photographs taken during site soil characterization activities are included in the Photographic Log in Appendix B.

## 4.1 STANDARDS, CRITERIA & GUIDANCE (SCG)

The following standards and criteria apply to this project.

- 6 NYCRR Part 375 Environmental Remediation Programs
- 6 NYCRR Part 608 Use and Protection of Waters
- 6 NYCRR Parts 700-706 Water Quality Standards

• 29 CFR Part 1910.120 - Hazardous Waste Operations and Emergency Response

The following guidance applies to this project.

- DER-10 Technical Guidance for Site Investigation and Remediation (May 2010);
- USEPA Drinking Water Health Advisory for PFOA and perfluorooctane sulfonic acid (PFOS) dated May 2016 (USEPA, 2016);
- NYSDEC Division of Spills Management Sampling Guidelines and Protocols: Technologies Background and Quality Control/Quality Assurance for the NYSDEC Spill Response Program (NYSDEC, 1992); and
- TOGS 1.1.1<sup>1</sup> Ambient Water Quality Standards & Guidance Values and Groundwater Effluent Limitations (NYSDEC, 1998).
- In May 2016, the USEPA issued a site-specific Removal Management Level (RML) for Residential Soil for Hoosick Falls of 1,000 µg/kg for the combined level of PFOA and PFOS (USEPA 2016b; USEPA, 2016c). This RML was based on the reference dose used by the USEPA Office of Water to establish the drinking water health advisory of 70 ppt. This RML was used to screen the soil results.

#### 4.2 SITE CHARATERIZATION SOIL SAMPLING DURING IRM ACTIVITIES

During completion of the IRM soil excavation activities in the fall of 2017, a total of 19 soil samples were collected from excavations in select areas of the Site and analyzed for site characterization parameters. Each of these areas had previously been slated for the completion of soil borings during implementation of the site characterization phase; however, IRM excavation activities in these areas enabled collection of samples at the time of excavation. At each selected sampling location (sidewall or bottom), as directed by CHA, Oak Mitsui's contractor collected soil using the excavator bucket. CHA's field scientist then manually collected soil from the center portion of the bucket (i.e., material that had no direct contact with the bucket) and placed it into laboratory-provided glass jars. New, disposable nitrile gloves were donned by the field scientist prior to collection of each sample. The jars were labeled and stored in a rigid cooler with ice, pending submittal to the laboratory. Excavation areas and corresponding sample IDs are listed below ("S" indicates a sidewall sample; "B" indicates a bottom sample):

AOC Areas	Site Characterization Samples Collected
Treater 4&5 (AOC 2):	S108; S105A1; B101A
Treater 2&3 (AOC 3):	S111; B103
Treater 2&3 (AOC 4):	S117; B104A
Drum Deck (AOC 5):	S118; B106
Cell 11-20 Spent Tank (AOC 6):	Spent Tank Bottom

AOC Areas	Site Characterization Samples Collected
Filtration (AOC 8):	S134; B109
QC Lab (AOC 9):	S140; B110
Copper Press (AOC 10):	S142; B111
Arsenic Lamella/MW-2 (AOC 11):	S150; B113

All samples were transported by CHA, under chain-of-custody protocol, to Alpha Analytical Inc.'s (Alpha) service center in Albany, New York. The samples were then transported by Alpha's courier, under chain-of-custody protocol, to its laboratory in Westborough, Massachusetts for analysis. All samples were analyzed for the following parameters:

- Target Compound List (TCL) volatile organic compounds (VOCs);
- TCL semi-volatile organic compounds (SVOCs);
- TCL pesticides; TCL herbicides;
- Target Analyte List (TAL) metals;
- Total Cyanide;
- PCBs;
- per- and polyfluoroalkyl substances (PFAS); and
- 1,4-dioxane.

Analysis for PFAS was performed by Vista Analytical Laboratory, under subcontract to Alpha.

#### 4.3 EXPLORATORY EXCAVATION

On May 16, 2018, exploratory excavation was completed on the West Side of the Site using a trackmounted excavator operated by Oak Mitsui's subcontractor, NRC. NRC contacted Dig Safely New York (DSNY) prior to the initiation of intrusive activities at the property. The excavation was completed to confirm the presence and locations of two former gas holder structures associated with historical on-site coal gasification operations. A CHA environmental scientist was present and provided oversight and documentation of excavation activities. A representative of the NYSDEC was also present and observed the excavation activities for both structures. Excavated materials were temporarily staged on plastic sheeting and were placed back into the excavations upon completion of exploratory activities. Observations and information obtained from this effort were used to aid in the selection of soil boring locations in these areas.

#### 4.4 SOIL BORINGS & SAMPLING (SITE CHARACTERIZATION PHASE)

During the site characterization phase, a total of 30 soil borings were completed to further investigate potential impacts to soil from historical on-site activities. Drilling services were provided by CHA's subcontractor, Aztech Environmental Technologies, Inc. (Aztech), of Ballston Spa, New York. Aztech contacted DSNY prior to the initiation of intrusive activities at the property. All soil borings were completed utilizing Geoprobe<sup>®</sup> direct-push methods. Soil samples were collected via a Macro-Core<sup>®</sup> sampler with disposable acetate liners. Drilling and sampling activities were conducted under the full-time supervision of a CHA environmental scientist. The borings were placed to evaluate the subsurface conditions relative to the historic use of the Site as described below. During the period of May 21-23, 2018, 13 soil borings (SC001 through SC007, SC009, SC010, SC014, SC016, SC029 and SC030) were completed on the East Side of the Site in areas of historical Oak Mitsui operations. The Work Plan included eight additional borings on the East Side (identified as SC008, SC011 through SC013, SC015, SC017 through SC019); however, these borings were not completed because site characterization samples in these areas were collected during completion of the IRM soil excavation activities. Boring locations are shown on Figure 3.

- During the period of May 21-23, 2018, 11 soil borings (SC020 through SC028, SC021A and SC024A) were completed on the West Side of the Site, in the area of historical coal gas manufacturing operations. Based on observations during the above-referenced exploratory excavation associated with the gas holder structures, and in consultation with the NYSDEC, borings SC-021A and SC-024A were added to the original work scope.
- On July 30, 2018, based on analytical results from the soil sample collected at boring SC004, six additional soil borings (SC004A, SC031 through SC035) were completed in the vicinity of the original boring SC004.

Soil borings completed during May 2018 were advanced to a depth of 16 feet bgs at locations where the ground surface consisted of asphalt pavement or gravel and the Macro-Core® could be driven from the surface. At locations within former building footprints, where concrete slab foundations were present, Aztceh utilized a core drill to core through the concrete, and the soil borings were advanced to a depth of 16 feet below the bottom of the concrete slab, with a maximum overall depth of approximately 17 feet bgs. The supplemental soil borings completed in July 2018 (in the area of SC004) were advanced to a depth of 12 feet bgs.

At each boring location, soil samples were collected in four-foot intervals throughout the depth of the boring. A new, disposable acetate liner was placed into the Macro-Core<sup>®</sup> sampler for each sampling interval. Following sample collection, upon removal of the acetate liner from the sampler, the liner was cut open along its length and an initial screening of the soil for the presence of volatile

organic vapors was conducted using a RAE Systems model MiniRAE 3000 photoionization detector (PID). Wearing new, disposable nitrile gloves for each four-foot sample interval, CHA's field scientist removed soil from along the length of the sample core and placed it into a resealable plastic bag, which was then sealed and set aside for subsequent PID screening for the presence of volatile organic vapors. If samples from the boring location were slated for VOC analysis, soil was also placed into a laboratory-supplied glass jar which was sealed and labeled, pending potential selection for submittal to the laboratory. The sample core was then examined for lithologic classification and obvious evidence of contamination (e.g. staining, odor). If suspected evidence of potential contamination was observed in a specific interval within the four-foot sample core, soil from that interval was also placed into a glass jar and a sealable plastic bag and set aside for subsequent PID screening.

Soil descriptions and PID readings were recorded on boring logs, which are included in Appendix C. At a minimum, one soil sample, comprised of soil from the sampling interval exhibiting the highest potential for the presence of contamination (based on PID readings or field observations) or the interval immediately above the observed saturated zone, was retained from each boring for laboratory analysis. For each interval selected for analysis, soil was placed into laboratory-provided containers which were then labeled and stored in a cooler with ice, pending submittal to the laboratory.

Upon completion of sampling at each boring, the borehole was filled with native material (drill cuttings) to a depth of approximately one foot below grade, then granular bentonite was placed above the native material to within a few inches of the surface and was hydrated with potable water to seal the borehole. At locations within pavement or gravel, the boreholes were repaired at the surface with asphalt cold patch. At locations within concrete slab foundations, where the concrete was cored, the core was placed back into the hole and was sealed with portland cement.

Soil samples from borings located on the East Side were submitted to the laboratory to be analyzed for one or more of the following: TAL metals; TCL VOCs; TCL SVOCs; TCL pesticides; PCBs; total cyanide; PFAS; and 1,4-dioxane. Specific parameters analyzed for at the East Side boring locations were based on results of the previous Phase 1 and Phase 2 investigations.

All soil samples from borings located on the West Side were submitted to the laboratory to be analyzed for the following: TCL VOCs; TCL SVOCs; TCL pesticides; PCBs; and total cyanide. In addition, soil samples from select boring locations on the West Side were also analyzed for TAL metals; PFAS; and 1,4-dioxane.

Supplemental soil samples collected in the vicinity of SC004 in July 2018 were submitted to the laboratory to be analyzed for arsenic and PFAS.

All samples, including quality assurance/quality control samples (field duplicates, matrix spike/matrix spike duplicates), were transported by CHA, under chain-of-custody protocol, to Alpha's service center in Albany, New York. The samples were then transported by Alpha's courier, under chain-of-custody protocol, to its laboratory in Westborough, Massachusetts for analysis. Analysis for PFAS was performed by Vista Analytical Laboratory, under subcontract to Alpha.

All site characterization sample results were subject to independent, third party data validation. As such, the laboratory prepared ASP Category B data packages for all samples. The data packages were submitted to Alpha Geoscience in Clifton Park, New York, for validation, and Data Usability Summary Reports (DUSR's) were prepared for each package.

## 4.5 GROUNDWATER INVESTIGATION SUBSURFACE CLEARANCE SURVEYS

Groundwater characterization sampling locations including permeability profiling (Waterloo APS<sup>TM</sup>), exploratory geologic soil boring and groundwater monitoring well locations are shown in Figure 6.

Dig Safely New York (DSNY) was notified prior to the initiation of intrusive activities at the property. DSNY identified, located, and marked utilities in areas proposed for subsurface investigation. Ground Penetrating Radar Services (GPRS) was retained to evaluate proposed drilling locations using ground penetrating radar (GPR), magnetometry/metal detection, inductive cable/pipe location, and other appropriate techniques. At a minimum, a 10-foot diameter radius around each planned drilling location was scanned for subsurface utilities prior to the initiation of the work. Proposed sampling locations were adjusted in the field as necessary based on the results of subsurface clearance efforts.

## 4.6 PERMEABILITY PROFILING & GROUNDWATER SAMPLING

The purpose of this task was to evaluate groundwater quality and hydrogeologic characteristics beneath the Site. Results were evaluated to identify potential locations for new permanent monitoring wells and their respective screen zones. Under the direction of ERM personnel, Cascade Technical Services, Inc. (Cascade) of Montpelier, Vermont, utilized the Waterloo APS<sup>TM</sup>

Technology to continuously log the index of inferred hydraulic conductivity (Ik) and collect discreteinterval groundwater samples.

Eleven profile borings were completed: ten on-site locations and one off-site location (Figure 6). Ik values were logged and graphically profiled as the Waterloo APS<sup>TM</sup> tooling was advanced by a Geoprobe direct-push rig. Real-time data were used to identify zones of high permeability for potential sampling. Upon selection of a high permeability zone, a sample port was opened in the down-hole tooling and groundwater purging was initiated via peristaltic pump. Select geochemical parameters were measured to ensure groundwater stabilization prior to sample collection. Stabilization criteria for Waterloo APS<sup>TM</sup> sampling require less than 10 percent (%) difference between consecutive readings of specific conductance (SpC), pH, dissolved oxygen (DO), and oxidation-reduction potential (ORP). Geochemical parameters were measured with a YSI electronic field parameter meter. The YSI meter was calibrated three times daily per NYSDEC request and samples were collected directly into laboratory-supplied sampling containers.

Samples were planned for collection from three depth intervals at each location: one at the water table, one between the water table and refusal, and one at drilling refusal. The final number and depth of samples collected was ultimately dependent upon the hydrogeologic conditions at the specific location. If the Ik was too low, the formation did not yield sufficient water for sampling and the profiler was advanced deeper until Ik conditions were favorable for a sample attempt. If a location exhibited more than three discreet zones of relatively high Ik, additional samples were collected. In large continuous zones of high Ik, the ERM hydrogeologist and NYSDEC site personnel determined the frequency of sampling based on hydraulic head, geochemical parameters, location of other collected samples and other Site considerations.

Water table depth was measured at each profiling location while the probe was stationary. Sample collection was attempted when hydraulic head readings indicated the probe was below the water table. A sample was collected at the water table (or shallowest depth possible). Subsequent deeper samples were collected until till or bedrock was encountered or the Waterloo APS<sup>TM</sup> otherwise reached refusal.

Based on real-time APS<sup>TM</sup> profiling results, the number of groundwater samples collected at each profiling location varied from the original number of three. Changes in sampling frequency were made in consultation with NYSDEC's field representative. Precautions were implemented to avoid the use of sampling equipment and materials that may contain PFAS (refer to Section 4.14). Rinse samples were collected directly into pre-labeled sampling containers and stored in a clean pre-chilled

cooler. Samples were stored on ice and transported under chain of custody to a NYSDOH-approved environmental laboratory and analyzed for parameters listed in Section 4.8. Table 4 lists all samples collected for laboratory analyses and the constituents analyzed for each specific sample.

Retraction grouting of each borehole was performed immediately after completion to minimize potential vertical migration of contaminants. Cascade practiced standard Waterloo APS<sup>TM</sup> decontamination procedures between locations as described in section 3.4.1. Waterloo APS<sup>TM</sup> tooling was disassembled and thoroughly decontaminated between boreholes. All decontamination water and disposable sampling materials were collected and placed in new, labelled United States Department of Transportation (USDOT) approved 55-gallon steel drums. One equipment blank was collected from each profiler daily to ensure effectiveness of decontamination procedures.

## 4.7 GROUNDWATER MONITORING WELL INSTALLATIONS & SAMPLING

Profiling results informed recommendations for the target locations of fixed monitoring wells proposed in a Geologic Boring and Monitoring Well Location Plan, dated 1 May 2019 and approved by NYSDEC in its letter dated May 8, 2019.

## 4.7.1 Groundwater Monitoring Well Exploratory Soil Borings

Soil borings were advanced to the top of bedrock or drilling refusal using sonic drilling technology at boring locations shown on Figure 6. Each borehole was logged for geologic characterization.

Soil was placed directly into sealable high-density polyethylene (HDPE) bags labeled with the borehole identification and depth interval. The soil was allowed to equilibrate within the bag for approximately five minutes prior to the collection of headspace readings. Soil was screened by an ERM geologist using a calibrated photoionization detector (PID) equipped with an 11.7 electron volt (eV) lamp. Soil was visually examined for physical properties including color, texture, composition, moisture content, odor, and visual evidence of staining, discoloration, or product/sheen. Soil descriptions and other field data and observations were documented on soil boring logs (Appendix C).

All excess soil and disposable sampling materials were collected and placed in new, labelled USDOT-approved 55-gallon steel drums.

Precautions were implemented to avoid the use of sampling equipment and materials that may contain PFAS. These precautions included, but were not limited to, disposable HDPE plastic covering placed on the sampling table, decontamination of tools and donning of new nitrile gloves

per sampling interval. PFAS-specific sampling considerations for all media are presented in Section 4.14.

During drilling of the exploratory soil boring and installation of groundwater monitoring well FS-MW-007A, a free-phase product was observed in the drilling water return to the mud pan. The amount of oil was minimal, and it was necessary to skim the oil off the water surface in several drums used to contain the water from the drill pan in order to obtain enough sample volume for the analytical laboratory. The sample was analyzed for PFAS, TCL organic and TAL inorganic compounds, product finger printing, and total organic carbon (TOC).

## 4.7.2 Monitoring Well Installation

Monitoring well installations were initiated in June 2019. Nineteen (19) permanent wells and four (4) temporary wells were installed at selected depth intervals based on the texture, relative permeability, thickness of subsurface geologic units and initial analytical results observed during the Waterloo APS<sup>TM</sup> sampling. One to three overburden monitoring wells were installed with varying screen intervals in each location as summarized below:

Well Interval Designation	Screened Interval Description
А	Straddling or just below the water table
В	Below the clay unit near the top of the underlying sand and gravel
С	Intermediate - near the middle of the overburden deposits
D	Near the bottom of the overburden deposits

Monitoring wells were installed using sonic drilling techniques and constructed with two-inch polyvinyl chloride (PVC) pipe. Wells were constructed using either 5-foot or 10-foot long 0.010-inch pre-slotted screens.

Filter packs were constructed around each well screen using Morie #0 sand to a minimum of two feet above the top of the screen. A minimum two-foot thick bentonite seal was installed above the filter pack and hydrated with approved potable water. Cement-bentonite grout was installed in the remainder of the borehole to approximately one foot below ground surface. A flush-mounted steel protective casing was cemented in place over each well. A summary of monitoring well construction is presented in Table 5. Monitoring well construction logs are presented in Appendix A. Monitoring wells were developed using inertial pumping techniques. A stainless-steel check-valve and HDPE tubing was used for well development. Development water was purged directly into labelled, new USDOT approved 55-gallon steel drums.

## 4.7.3 Groundwater Sampling

Groundwater sampling was initiated in July 2019.

As discussed in Section 4.7.1, a minimal amount free-phase product was observed in the drilling water return to the mud pan during drilling of the exploratory soil boring and installation of groundwater monitoring well FS-MW-007A. The July 2019 groundwater sampling event, no measurable free-phase product was detected in water table well MW-07A and a groundwater sample was collected from the well.

Monitoring wells were sampled using peristaltic pumps and HDPE tubing. Groundwater samples were collected from all monitoring wells using low flow/minimal drawdown purging and sampling procedures (USEPA, 1996). ERM field staff continuously monitored temperature, SpC, DO, pH, turbidity, ORP, and depth to water using a calibrated YSI 566 meter with flow-through cell and a water level indicator. These parameters were measured until stabilization was reached. Groundwater sampling records are presented in Appendix C. Special precautions relative to PFAS are provided in Section 4.11. Equipment decontamination procedures are presented in Section 4.12.

Samples were stored on ice and transported under chain of custody to a NYSDOH-approved environmental laboratory and analyzed for parameters listed in Section 4.8. Table 4 lists all samples collected for laboratory analyses and the constituents analyzed for each specific sample.

## 4.7.4 Groundwater Level Gauging

A New York-licensed surveyor, Control Point Associates of Albany, New York (CPA) surveyed the profile boring locations and groundwater monitoring wells. Groundwater levels were obtained using an electronic water level indicator.

## 4.8 GROUNDWATER SAMPLE ANALYSIS

Groundwater samples collected from discrete-depth intervals from the profiling points and groundwater monitoring wells were analyzed by NYSDOH-approved environmental laboratories for the following parameters using the listed analytical methods:

- TCL VOCs plus 10 Tentatively Identified Compounds (TICs) by USEPA Method 8260C;
- TCL SVOCs plus 20 TICs by USEPA Method 8270C;
- Pesticides by USEPA Method 8081;
- PCBs by USEPA Method 8082;
- TAL metals by USEPA Method 6010B;
- Mercury by USEPA Method 7470;
- TOC by Lloyd Kahn Method;
- pH by Standard Method 9045D;
- Cyanide by USEPA Method 9010; and
- Weak Acid Dissociable Cyanide by 9012B.
- PFAS by USEPA Method 537-1.1 (modified);
- 1,4-dioxane by USEPA Method 8270 with selected ion monitoring (SIM);

If the identified intervals within a profiled location or a groundwater monitoring well did not yield sufficient water volume for all requested analyses, the following sample collection priority was be followed: 1) PFAS, 2) VOCs/1,4-dioxane, 3) metals, 4) Cyanide/WAD Cyanide, 5) TOC, 6) pH, and 7) Pesticides/PCBs.

## 4.9 UNDERGROUND STORAGE TANK GEOPHYSICAL SURVEYS

On July 16, 2019, New York Leak Detection (NYLD) performed an additional geophysical survey using GPR, magnetometry/metal detection, inductive cable/pipe location, and other appropriate techniques to locate the USTs as discussed in Section 2.4.

# 4.10 FORMER PRODUCTION WELL LOCATIONS AND BOREHOLE GEOPHYSICAL SURVEYS

Efforts to obtain drilling and construction records for the production wells from the drilling company whom reportedly installed the wells were unsuccessful.

Wells E & F are located within vaults with standard street manholes. The remaining wells identified on a 1999 Site Plan (Wells "B", "C", "D", and the two unnamed were not readily found in the field. In July 2018, shallow excavations were performed to locate Well B and the adjacent unnamed well located within the footprint of the former main facility building. The unnamed well was not found and Well B was located but found to be damaged at the surface, open and full of what appeared to be building demolition debris.

In October 2019, Wells E & F were opened, and the pumps/wiring removed by a well driller to permit borehole geophysical logging to determine the current physical attributes of each well (casing depth, screen length, etc.). Optical and acoustical televiewers were run in each well. Well E was found to be 82 feet deep with a 10-foot screen set from approximately 72 feet – 82 feet bgs. Well F was found to be approximately 100 feet deep with a 17-foot screen set from

# 4.11 AERIAL DRONE SURVEY

approximately 83 feet - 100 feet.

The Site shoreline was flown using a unmanned aerial vehicle (drone) to identify areas temperature contrasts along the Hoosic River shoreline as part of a larger infrared and ortho photogrammetry survey along the Hoosic River. Areas of temperature contrast along the Hoosic River shoreline may be locations of groundwater discharge.

On December 12, 2019, under direct supervision of ERM personnel, two Federal Aviation Administration (FAA) licensed pilots – a Remote Pilot in Command (RPIC) and a Visual Observer (VO) of Geomatix, LLC (Geomatix) operated an Unmanned Aircraft System (UAS) to obtain georeferenced oblique angle infrared images and accompanying high-resolution orthoimages. Geomatix surveyed the southern bank of the Hoosic River extending from the southern property boundary to the Church Street Bridge. Prior to the flight, Geomatix performed a remote site inspection to identify any flight hazards or regulatory requirements as they pertain to UAS operation. These included:

- FAA Airspace Regulations;
- Terrain Obstacles;
- Public and Private Property Access and
- Property Owner Notification

The UAS was equipped with an air-cooled Radiometric Forward Looking Infrared (FLIR) XT Thermal Camera and a DJI 20 Megapixel X5S Camera. Geomatix calibrated their FLIR camera to the standard emissivity value of 1.0. The FLIR camera automatically recalibrated between each captured image. The resolution of the captured infrared data was approximately 10cm/pixel. The resolution of the orthoimages were approximately 3-5cm/pixel. Geomatix manually flew the

properties and captured data at predefined intervals and altitudes. High-resolution imagery was captured at an altitude of approximately 250 feet above ground surface.

#### 4.12 DECONTAMINATION PROCEDURES

During the course of the fieldwork, to minimize the potential for cross-contamination during sampling, new disposable nitrile gloves were donned by CHA's field scientist prior to handling each soil sample core collected with the Macro-Core<sup>®</sup> sampler. Following removal of the disposable acetate liner containing the sample core, the cutting shoe and sample tube were decontaminated using a solution of potable water and Alconox<sup>®</sup> detergent, followed by a potable water rinse. Following decontamination, a new acetate liner was placed in the sample tube and the sampler was reassembled.

A temporary decontamination pad was constructed during the groundwater investigation conducted by ERM using two layers of polyethylene sheeting that was raised at the sides with soil berms. Reusable drilling and sampling equipment and tools were cleaned with Alconox® and potable water solution followed by PFAS-free water steam rinse between uses. Decontamination water from the pad was transferred and managed as discussed in Section 4.13. Special precautions relative to PFAS are provided in Section 4.14.

## 4.13 INVESTIGATION DERIVED WASTE

Investigation Derived Waste (IDW) generated during the investigation included:

- Water decontamination fluids and groundwater from Waterloo APS<sup>TM</sup> profiling and monitoring well development/purging/sampling:
- Disposables personal protective equipment (PPE), HDPE tubing used for groundwater sampling, paper towels, and HDPE plastic; and
- Solids soil from soil sampling and subsurface clearance activities.

IDW generated from the field sampling efforts were placed in new USDOT-approved 55-gallon steel drums and/or a frac tank staged for as-required waste characterization sampling in advance of disposal. All containers of IDW were properly labeled per NYSDEC, USEPA and/or USDOT requirements. The IDW containers were staged at the Site prior to manifesting and shipment for off-site disposal.

#### 4.14 PFAS SAMPLING CONSIDERATIONS

To avoid or minimize contamination of environmental samples with PFOA or other PFAS from sampling equipment or other materials, guidelines have been developed for sampling procedures and equipment decontamination (NJDEP, 2007; USEPA, 2015). These guidelines involve avoiding the use of or contact with materials that may contain PFAS (USEPA, 2009) and include:

- Do not wear new clothing or clothing that has been treated with stain- or water-resistant coatings. All clothing must be washed three to six times before use.
- Do not wear Tyvek® clothing.
- No Post-It-Notes® will be used during sampling.
- Personnel should not handle pre-wrapped food or snacks while working at the properties.
- Do not use any material or equipment that contains Teflon® (e.g. Teflon® tubing, sample container cap liners, tape, etc.).
- Do not use any materials or equipment that contains PTFE (i.e., PTFE-coated aluminum foil, Gore-Sorbers<sup>™</sup>) or any other material containing a fluoropolymer.
- Use only laboratory-supplied sampling containers/caps made of either polyethylene, high density polyethylene (HDPE) or polypropylene for samples to be analyzed for PFOA and other PFAS.
- Field personal must wash hands with soap and potable water prior to sampling activities, especially after contact with any materials potentially containing PFAS.
- Do not use chemical ice packs ("blue ice").
- Preserve samples on wet ice only; no "blue ice". Polyethylene bags can be used to store ice.

Dedicated potable water containers were used in the field throughout the duration of the project. The containers were filled with potable water from a source known to have non-detectable concentrations of PFAS prior to mobilization into the field. Aqueous field rinse blank samples were collected from the containers prior to mobilization and during use in the field for laboratory analysis of PFAS to ensure that the potable water containers are not a potential source of PFAS.

The following NYSDEC special precautions for trace contaminant sampling was utilized based on review of Section 5.2.9 of the NYSDEC's Sampling Guidelines and Protocols (NYSDEC, 1992):

- A clean pair of new, disposable nitrile gloves [were] worn each time a different point or location is sampled; and
- Sample containers [were] placed into separate re-sealable polyethylene plastic bags immediately after collection and labeling.

#### 4.15 COMMUNITY AIR MONITORING PLAN

The NYSDEC-approved Work Plans included a Community Air Monitoring Plan (CAMP), which was implemented throughout ground intrusive site characterization activities at the Site. The CAMPs included monitoring of both fugitive dust and organic vapors. Two CAMP monitoring stations with enclosures were set up daily: one upwind of the work area; and one downwind of the work area. The system was programmed to notify field personnel via text messaging in the instance of an exceedance of established action levels, so that corrective action could be implemented. Additionally, one handheld PID was utilized within the exclusion zone to facilitate field screening of soil samples and monitor breathing zone vapor concentrations.

#### 4.16 DEVIATIONS FROM THE WORK PLAN & ADDITIONS TO SCOPE

The following modifications to procedures outlined in the work plans which were discussed with NYSDEC representatives in the field and approved for use during implementation of the SC activities.

#### <u>April 2019</u>

The copper concentration in the shallow groundwater sample collected at FS-APS-004 prompted NYSDEC to request installation of temporary wells FS-TMW-001 through FS-TMW-004 in an attempt to delineate the presence of elevated levels of copper in groundwater in the vicinity of this location.

• NYSDEC requested the installation of two additional exploratory borings in the northern part of the Site. This request was fulfilled with the installation of three permanent monitoring wells at location FS-MW-012 and two permanent monitoring wells at location FS-MW-013.

#### June 2019

- Two permanent wells were installed at location FS-MW-002 to monitor the vertical extent the subsurface conditions encountered during drilling. One permanent well was originally proposed.
- One of two planned permanent monitoring well locations were installed at location FS-MW-009 due to subsurface lithological conditions that varied from those determined by APS log FS-APS-009.

#### July 2019

• Temporary well FS-TMW-002 was not sampled due to a decline in groundwater level at that location between the time the well was installed and developed, and the groundwater monitoring well sampling event.

# 5.0 RESULTS

The findings of the site characterization activities and analytical results for the soil and groundwater samples collected for site characterization purposes during the IRM activities, and the soil boring and groundwater characterization programs are discussed in the following sections.

Sample results were compared to applicable NYS SCGs (Section 4.1) by media as summarized below.

## 5.1 CAMP MONITORING RESULTS

In summary, the CAMP results indicated the following:

- **Particulate Results:** There were no 15-minute averages in excess of  $150 \,\mu g/m^3$  which was the action level established in the CAMP.
- Volatile Organic Compound (VOC) Results: No VOC concentrations exceeded the 15minute action level during the IRM activities.

In accordance with the CAMP, fugitive dust monitoring was performed using a DustTrak 8530 particulate meter during ground intrusive activities. The action level of  $150 \ \mu g/m^3$  over a fifteenminute period was not exceeded during site characterization activities. Furthermore, minimal visible airborne dust was observed leaving the work areas. Continuous monitoring for VOCs using a MiniRAE 3000 PID was also performed during all ground intrusive activities. The action level of 5 parts per million (ppm) over a 15-minute period was never exceeded during the site characterization activities. Air monitoring data are included in Appendix D.

## 5.2 WEST SIDE EXPLORATORY EXCAVATION OBSERVATIONS

Exploratory excavation conducted on the West Side of the Site confirmed the presence of the two circular gas holder structures (Appendix B, Photographs 1 through 10). The approximate locations of the structures are shown on Figure 3. A portion of the brick wall of each structure was exposed and the top of the walls were encountered at a depth of approximately two feet bgs. A significant portion of the larger, more northerly structure's brick exterior was exposed to a depth of approximately nine feet bgs, where a concrete footer was observed (Photograph 4). The wall of this structure was observed to be approximately two feet in width. Excavation on the interior side of the wall revealed the presence of water within the fill material and an apparent brick floor at approximately five feet bgs. Excavation extended through the brick floor into the underlying soil/fill materials. With the wall of the structure exposed, soil boring locations SC021 and SC021A were selected to assess subsurface

conditions along the inside and outside of the structure wall, respectively (outside of the disturbed area of excavation).

The wall of the smaller of the two structures was found, to the southwest of the larger structure, and partially exposed such that the interior and exterior sides of the wall could be determined. Soil borings SCO24 and SC24A were then selected to assess subsurface conditions along the inside and outside of the structure wall, respectively (outside of the disturbed area of excavation). Upon completion of exploratory activities, NRC backfilled the excavations to existing grade using the excavated material.

## 5.3 SOIL BORING OBSERVATIONS & SCREENING RESULTS

Based on field observations of soil samples collected during the soil boring program, soil conditions on the East Side of the Site generally consist of a mixture of sand, silt, gravel and industrial fill materials (including ash, fragments of brick, slag and wood) extending to depths up to approximately 14 feet bgs. Fill materials are generally underlain by a layer of fine to coarse sand and gravel, and then silty-clay. At locations where fill materials were limited to the uppermost two to three feet (SC006, SC007, SC016, SC029 and SC030), soil conditions consisted of a mixture of sand and silt, grading to the above-referenced fine to coarse sand and gravel layer, underlain by silty-clay. Soil conditions on the West Side of the Site were not observed to be significantly different from the East Side, except that the presence of fill materials was more limited on the West Side. Photographs of sample cores from each boring are included in Appendix B. Saturated soil conditions were observed at depths between 12 and 16 feet bgs, except for boring location SC001 (located on the northernmost portion of the Site, east of the railroad bridge), where saturated soil was observed at a depth of approximately eight feet bgs. Bedrock was not encountered during the site characterization activities conducted by CHA. Soil boring logs are included in Appendix C.

A layer of black, weathered coal-tar material approximately six inches thick was encountered (Photographs 33 and 34 in Appendix B) at a depth of approximately 9.5 to 10 feet bgs at the location of boring SC021, on the interior side of the wall of the larger gas holder structure (depth corresponds to the bottom of the structure). The description of the material as weathered coal tar is based on its presence within a documented former MGP gas holder structure and based on visual observation and olfactory evidence. The NYSDEC representative on-site at the time, Will Shaw, concurred with the description.

The eight to ten-foot depth interval (including the black material) was retained and submitted for laboratory analysis. This material was not observed within the soil at nearby boring SC021A, situated outside of the gas holder structure. The eight to ten-foot depth interval at SC021A was also submitted for laboratory analysis for comparison with the sample from SC021.

Also, a zone of dark gray staining, exhibiting a moderate odor, observed within the 12 to 16-foot sample core at boring SC023. The material consisted predominantly of fine to coarse-grained sand with minor components of silt and fine gravel and was estimated to be at a depth interval of approximately 12 to 13 feet bgs.

Results from field PID screening of soil samples showed that volatile organic vapors were not detected above background levels in samples collected for site characterization purposes during IRM soil excavation activities, or during the soil boring program at locations SC001, SC005, SC006, SC007, SC009, SC010, SC014, SC016, SC020, SC021, SC021A, SC022, SC024, SC024A, SC025, SC028, SC029 and SC030. Screening results of all other samples showed PID readings of less than six parts per million (ppm), except for the 12 to 13-foot depth interval at boring SC023, which exhibited a PID reading of 223 ppm, and the seven to eight-foot depth interval at boring SC026, which exhibited a PID reading of 200 ppm, both of which were retained and submitted for laboratory analysis.

# 5.4 SOIL SAMPLE ANALYTICAL RESULTS

The subsurface soil sample analytical results were compared to the 6NYCRR Part 375 Industrial Use SCOs, based on historical and future intended Site use. Based on further consultation with the NYSDEC, results are also compared to Commercial Use SCOs (i.e., a standard more restrictive than the intended future use of the Site). Analytical results (detected compounds only) for samples collected during both the IRM and site characterization activities are summarized in Table 6. Parameters at concentrations exceeding the Commercial and Industrial Use SCOs are indicated by shaded cells in the tables. Yellow shaded cells indicate exceedance of Commercial Use SCOs (but below Industrial Use) and blue shaded cells indicate exceedance of Industrial Use SCOs.

Soil boring/sampling locations exhibiting contaminant concentrations exceeding the Industrial Use SCOs upon completion of the IRM and site characterization activities are shown on Figure 4. The complete laboratory analytical reports are included in Appendix E.

#### 5.4.1 East Side (Areas of Historical Oak Mitsui Operations)

#### <u>VOCs</u>

A total of 29 site characterization soil samples were analyzed for TCL VOCs: 19 samples from the IRM activities; and 10 samples from the soil boring program. Detected VOCs were limited to acetone, carbon disulfide, chloroform, cyclohexane, methyl ethyl ketone and toluene. One or more of these compounds was detected in nine of the collected samples (at depths greater than 4 feet bgs); however, no VOCs were detected at concentrations exceeding the Industrial Use SCOs.

#### **SVOCs**

A total of 25 site characterization soil samples were analyzed for TCL SVOCs: 19 samples from the IRM activities and 6 samples from the soil boring program. SVOCs were detected in six of the 25 samples submitted for analysis. In five of these six samples, multiple SVOCs were detected at estimated concentrations above the Method Detection Limit (MDL), but below the laboratory Reporting Limit (RL). In the remaining sample, SOIL-SC004(4'-8') collected from the northwestern portion of the Site, 19 SVOCs were detected above the laboratory RL. Only one of these compounds, benzo(a)pyrene, detected at a concentration of 1.7 ppm, slightly exceeded its Industrial Use SCO of 1.1 ppm. The sampling location and corresponding SVOC concentration are shown graphically on Figure 4.

## Pesticides

A total of 25 site characterization soil samples were analyzed for TCL Pesticides: 19 samples from the IRM activities; and 6 samples from the soil boring program. Detected pesticides were limited to 4,4'-dichlorodiphenyltrichloroethane (DDT) in the Spent Tank Bottom sample, and delta-BHC in the S118 sample. However, neither of these compounds was detected at a concentration exceeding its Industrial Use SCO.

#### <u>PCBs</u>

A total of 25 site characterization soil samples were analyzed for TCL PCBs: 19 samples from the IRM activities; and 6 samples from the soil boring program. PCBs were detected in the S105A1 sample (Treater 4&5 area) and at boring location SC004; however, the detected concentrations did not exceed the Industrial Use SCO.

#### Metals & Cyanide

A total of 36 site characterization soil samples were analyzed for TAL metals: 19 samples from the IRM activities; and 17 samples from the soil boring program. Several metals were detected in each sample; however, arsenic was the only metal detected at concentrations exceeding its Part 375 Industrial Use SCO. Arsenic exceeded the Industrial Use SCO of 16 ppm at the following sampling locations: borings SC004; SC004A; and SC014. Arsenic concentrations at these locations (at depths greater than 4 feet bgs) ranged from 21.9 to 125 ppm.

In addition, arsenic concentrations exceeding the Industrial Use SCO were also exhibited at the following confirmatory sampling locations upon conclusion of the IRM activities: S115 (Treater 2&3 area); S130, S131, S132 and B107 (1-10 Spent Tank area); S136 and S137 (Filtration area); and Spent Tank South Sidewall East and Spent Tank North Sidewall East (11-20 Spent Tank area). Arsenic concentrations at these locations (at depths greater than 4 feet bgs) ranged from 19.9 to 161 ppm. Sampling locations exceeding the Industrial Use SCO, along with their corresponding arsenic concentrations, from both the IRM and site characterization activities are shown graphically on Figure 4.

A total of 24 site characterization soil samples were analyzed for total cyanide: 18 samples from the IRM activities (sample S108 was inadvertently not selected for total cyanide analysis); and 6 samples from the soil boring program. Total cyanide was detected in one sample, SOIL-SC004(4'-8') located on the northwestern portion of the Site, at an estimated concentration of 0.27 ppm, which is below the Industrial Use SCO.

#### PFAS and 1,4-Dioxane

A total of 32 site characterization soil samples were analyzed for PFAS and 1,4-dioxane: 19 samples from the IRM activities; and 13 samples from the soil boring program, including seven (7) samples from the supplemental soil borings completed in the vicinity of SC004. At least one PFAS compound was detected in 17 of the 19 samples collected from the IRM activities, and in all the samples collected during the soil boring program. The largest number of PFAS detected was in the sample from boring SC035. Detected PFAS and their locations are shown graphically on Figure 5. The analytical results for two specific PFAS are discussed further in the following paragraphs.

The PFAS perfluorooctanoic acid (PFOA) was detected in all but four East Side samples (S111, B106, SOIL-SC007(8'-12') and a duplicate sample SOIL-DUP-SC001). Concentrations of PFOA in

soil samples across the East Side of the Site ranged from 53 to 33,700 parts per trillion (ppt). The highest concentration was detected at the location of boring SC004, on the northwestern portion of the Site. The second highest concentration of PFOA detected at the Site was 4,520 ppt (in sample S108).

Given the PFOA concentration detected at boring SC004 in comparison to the other PFOA concentrations detected across the Site, additional sampling in this area was subsequently conducted in July 2018. Boring SC004A was completed approximately one foot away from SC004 in an effort to verify the results from SC004. Borings SC031, SC033 and SC035 were completed approximately 10 feet to the south-southwest, northeast and southeast of SC004, respectively). Borings SC032 and SC034 were completed approximately 30 feet to the south-southwest and north-northeast of SC004, respectively (refer to inset on Figure 3). Samples retained for laboratory analysis from the supplemental borings were from the four to eight-foot depth interval, the same as the sample from SC004. The concentration of PFOA in the sample from SC004A was 1,300 ppt. The wide disparity in the results for the samples from SC004 and SC004A is likely attributable to variability within the sample matrix. Concentrations of PFOA at the supplemental boring locations ranged from 278 ppt at SC034, approximately 30 feet to the north-northeast of SC004, to 20,400 ppt at SC031, approximately 10 feet to the south-southwest of SC004.

PFOS was detected above the laboratory reporting limit in 3 of the 32 samples submitted for analysis. These samples were S108, SC004 and SC035, and the PFOS concentrations were 840 ppt, 629 ppt and 145 ppt, respectively.

The compound 1,4-dioxane was not detected in any of the site characterization soil samples at concentrations above laboratory reporting limits.

## 5.4.2 West Side (Areas of Historical Coal Gasification Operations)

All site characterization soil samples submitted for laboratory analysis from the West Side were collected during the soil boring program.

## VOCs

A total of 12 site characterization soil samples were analyzed for TCL VOCs (one sample from each boring completed on the West Side, plus a field duplicate). One or more VOCs were detected in 9 of the 12 samples submitted for analysis. The largest numbers of VOCs detected were in samples

SOIL-SC020(8'-12'), SOIL-SC021(8'-10') and SOIL-SC024(8'-10'). Many of the VOCs were reported at estimated concentrations above the MDL, but below the laboratory RL. None of these compounds was detected at concentrations exceeding their respective Industrial Use SCOs.

# <u>SVOCs</u>

A total of 12 site characterization soil samples were analyzed for TCL SVOCs (one sample from each boring completed on the West Side, plus a field duplicate). One or more SVOCs were detected in 10 of the 12 samples submitted for analysis. The largest numbers of SVOCs detected were in samples SOIL-SC020(8'-12'), SOIL-SC021(8'-10'), SOIL-SC023(12'-13') and SOIL-SC024(8'-10'), in which 18 to 24 SVOCs analyzed for were detected in the samples. The highest concentrations of individual SVOCs were detected in sample SOIL-DUP-SC002, the duplicate of SOIL-SC020(8'-12'), but exceedances of the Industrial Use SCOs were only present in samples SOIL-SC020(8'-12'), SOIL-SC021(8'-10') and SOIL-SC023(12'-13'). Specifically, the following six SVOCs were detected at concentrations exceeding the Industrial Use SCOs in one or more samples: benzo(a)anthracene: benzo(a)pyrene; benzo(b)fluoranthene; chrysene: dibenzo(a,h)anthracene; and indeno(1,2,3-cd)pyrene. The sampling locations and corresponding SVOC concentrations are shown graphically on Figure 4.

## Pesticides

A total of 12 site characterization soil samples were analyzed for TCL Pesticides (one sample from each boring completed on the West Side, plus a field duplicate). Pesticides were detected in two of the samples. The pesticides endosulfan sulfate and heptachlor epoxide were detected in sample SOIL-SC023(12'-13'), and endosulfan II was detected in sample SOIL-DUP-SC002 (duplicate of SOIL-SC020(8'-12')); however, based on data validation, the pesticide results for both of these samples were rejected and are considered unusable.

# PCBs

A total of 12 site characterization soil samples were analyzed for PCBs (one sample from each boring completed on the West Side, plus a field duplicate). PCBs were not detected in any of the samples submitted for analysis.

#### Metals & Cyanide

A total of four site characterization soil samples were analyzed for TAL metals: SOIL-SC020(8'-12') and its duplicate, SOIL-DUP-SC002; SOIL-SC025(8'-12'); and SOIL-SC028(8'-12'). Several metals were detected in each sample; however, arsenic was the only metal detected at a concentration exceeding its Industrial Use SCO. Arsenic was detected in sample SOIL-SC020(8'-12') at a concentration of 20.4 ppm, exceeding the Industrial Use SCO of 16 ppm. The sampling location and corresponding arsenic concentration are shown graphically on Figure 4.

A total of 12 site characterization soil samples were analyzed for total cyanide (one sample from each boring completed on the West Side, plus a field duplicate). A higher number of samples were analyzed for total cyanide as compared to TAL metals on this portion of the Site based on historical use for coal gasification operations. Total cyanide was detected in the following five samples, at concentrations ranging from an estimated 0.97 ppm to 8.3 ppm: SOIL SC020(8'-12') and its duplicate which were located near the western property boundary, to the northwest of the larger gas holder structure; SOIL-SC021(8'-10') which was located near the western property boundary, to the northwest of the smaller gas holder structure; and SOIL-SC024(8'-10') which was located on the interior side of the smaller gas holder wall. Detected concentrations of total cyanide were well below the Industrial Use SCO.

#### PFAS and 1,4-Dioxane

A total of four site characterization soil samples were analyzed for PFAS and 1,4-Dioxane from the West Side: SOIL-SC020(8'-12') and its duplicate, SOIL-DUP-SC002; SOIL-SC025(8'-12'); and SOIL-SC028(8'-12'). The compound PFOA was detected in three of the four samples. The reported PFOA concentrations were 804 ppt and 636 ppt in samples SOIL-SC020(8'-12') and the duplicate, respectively, and 1,810 ppt in sample SOIL-SC028(8'-12'). The compound perfluorohexanoic acid (PFHxA) was detected in sample SOIL-SC025 at a concentration of 109 ppt. No other PFAS were detected in these samples. Detected PFAS and their locations are shown graphically on Figure 5.

The compound 1,4-Dioxane was not detected in any of the 4 above-noted samples.

#### 5.5 GEOLOGY AND HYDROGEOLOGY

Figure 7 presents a typical stratigraphic section that summarizes geologic materials encountered during the groundwater SC geologic borings. Overburden units at the Site typically consist of an upper sand unit with lesser amounts of gravel and silt. The upper sandy layer is underlain by a clay and silt unit intermittently interbedded with glacial till and laterally continuous across most of the Site. The clay and silt units are generally underlain by a lower sand and gravel unit with interbedded sandy silt beds, except on the southern end of the Site where the lower sand and gravel unit was not encountered. The lower sand and gravel unit is typically underlain by a diamict unit of varying thickness. A glacial till unit of varying thickness is typically found above the bedrock. Bedrock (Woolamsic Shale) beneath the Site is dark gray to black slate or phyllite, and typically weathered at the boundary between overburden and competent rock.

Figure 8 shows the interpreted thickness of the clay and silt unit between the upper sandy unit and lower sands and gravels based on soil boring logs and spline interpolation methods using ArcGIS software.

Figure 9 shows the interpreted bedrock surface elevation contour map based on soil boring logs and spline interpolation methods using ArcGIS software. Depth to bedrock is variable from south to north across the Site. Bedrock occurs at approximately 75 feet bgs on the south dipping to approximately 145 feet bgs near the middle and then rising up to approximately 25 feet bgs on the north adjacent to the Hoosic River. Figure 9 also shows the orientations and extents of geologic cross sections A-A' (Figure 10) B-B' (Figure 11) and C-C' (Figure 12) across the Site.

The cross sections depict the distribution and geometry of the overburden deposits and bedrock surface. Similar to the bedrock surface, overburden thickness beneath the Site is also variable, mirroring the depth to bedrock across the Site. The overburden sequence represents a proglacial depositional environment with indications of ice sheet advance and recession evidenced by successional layers glacial outwash sands and gravels, diamict (glacial till deposits), glaciolaustrine silt and clay deposits capped with shallow post-glacial alluvial riverine deposits and fill at the ground surface.

Groundwater is encountered in the overburden at the Site at depths of approximately 10 to 15 feet bgs. Groundwater elevations from shallow overburden monitoring wells ("A" Wells) and mapped groundwater contours are shown in Figure 13 and indicate that groundwater flow in the shallow sandy overburden unit is towards the north and west (i.e., towards the Hoosic River). A

potentiometric groundwater contour map for the deep groundwater was prepared using the groundwater elevations from the deeper overburden monitoring wells ("B" Wells) and mapped groundwater potentiometric contours are shown in Figure 14 and also indicate that groundwater flow in the deeper sand and gravel overburden unit is towards the northwest (i.e., towards the Hoosic River ).

Table 7 presents vertical gradients calculated using groundwater elevations and screened interval elevations for well pairs and triplets across the Site. A negative vertical gradient indicates a net potential for upward groundwater flow, whereas a positive vertical gradient indicates net potential for downward groundwater flow. These data also show that the vertical gradient is typically negative and ranges from 0.002 to 0.061 (dimensionless) indicating a net potential for downward groundwater flow the clay and silt unit towards the lower sand and gravel unit.

The upper sandy unit at the Site is an unconfined hydrogeologic unit, the clay and silt unit is considered to be a leaky aquitard, and the lower sand and gravel unit is considered to be a semi-confined hydrogeologic unit.

Groundwater in the unconsolidated overburden flows toward the Hoosic River. Groundwater flow in bedrock occurs predominantly through joints, fractures, faults, and foliation in the bedrock.

## 5.6 GROUNDWATER SAMPLE ANALYTIAL RESULTS

Analytical results for groundwater samples collected from both the Waterloo APS<sup>™</sup> profiling and monitoring wells are presented in Tables 8 through 11, graphically depicted in Figures 15 through 24, and discussed in the following sections.

#### 5.6.1 Volatile Organic Compounds

## 5.6.1.1 VOCs in Waterloo APS<sup>TM</sup> Groundwater Samples

The analytical results for VOCs from 23 discrete depth Waterloo APS<sup>TM</sup> groundwater profile samples are presented in Table 8.

No VOCs were detected in groundwater at concentrations that exceed their respective NY Class GA standards in groundwater samples collected from FS-APS-01 through FS-APS-03, FS-APS-09, and FS-APS-010.

VOCs were detected at concentrations exceeding their respective NY Class GA Standards and guidance values in groundwater samples collected from profile locations FS-APS-004 to FS-APS-008 and FS-APS-011 and included one or more of the following: trichloroethene (TCE), trichloroethane (TCA); 1,1- dichloroethane (1,1-DCA), cis-1,2- dichloroethane (cis-1,2-DCE), and 1,1-dichloroethene (1,1-DCE). TCE was detected at the highest concentrations ranging from 190 to 1,100 micrograms per liter  $\mu$ g/L.

Several other VOCs were detected in groundwater at concentrations below their respective NYS Class GA Standards and guidance values.

5.6.1.2 VOCs in Groundwater Monitoring Well Samples

The analytical results for VOCs from 22 groundwater samples collected from the monitoring wells are presented in Table 9. Total VOC results are posted on Figure 15. Total VOCs concentrations are posted adjacent to each well screen on cross sections A-A', B-B' and C-C' presented in Figures 16, 17 and 18, respectively.

No VOCs were detected in groundwater at concentrations that exceed their respective NY Class GA standards and guidance values in groundwater samples collected from monitoring wells FS-MW-3, FS-MW-4, FS-MW-001A, FS-MW-002A & -002C, FS-MW-003A & -003B, FS-MW-005A, FS-MW-007A, FS-MW-009C, and FS-MW-012A & -012B. Generally, VOCs are absent or detected in low concentrations in the shallowest wells screened in the uppermost sand and gravel unit.

VOCs were detected at concentrations exceeding their respective NY Class GA Standards in groundwater samples collected from monitoring wells FS-MW-1, FS-MW-005B, FS-MW-005C, FS-MW-007B, FS-MW-007C, FS-MW-008B, FS-MW-008B, FS-MW-011A, FS-MW-012C, and FS-MW-013A & -013B and included one or more of the following: TCE, TCA; 1,1-DCA, cis-1,2-DCE, and 1,1-DCE. TCE was detected at the highest concentrations ranging from 5.1 to 1,300 µg/L.

Several other VOCs were detected in groundwater at concentrations below their respective NYS Class GA Standards.

#### 5.6.2 Semi-Volatile Organic Compounds

5.6.2.1 SVOCs in Waterloo APS<sup>TM</sup> Groundwater Samples

The analytical results for SVOCs from 23 discrete depth Waterloo APS<sup>™</sup> groundwater profile samples are presented in Table 8.

No SVOCs were detected in groundwater at concentrations that exceed their respective NY Class GA standards.

1,4-Dioxane was detected in groundwater samples collected from FS-APS-003 through FS-APS-008, and FS-APS-011 at concentrations ranging from 0.12  $\mu$ g/L to 3.4  $\mu$ g/L. No NY Class GA standard currently exists for 1,4-Dioxane.

5.6.2.2 SVOCs in Groundwater Monitoring Well Samples

The analytical results for SVOCs from 22 groundwater samples collected from the monitoring wells are presented in Table 9.

Bis(2-ethylhexyl) phthalate was detected at a concentration exceeding its respective NY Class GA Standard at a concentration of 11  $\mu$ g/L at FS-MW-009C. No other SVOCs were detected in groundwater at concentrations that exceed their respective NY Class GA standards. Figure 19 shows the location of the one SVOC exceedance.

1,4-dioxane was detected in groundwater samples collected from collected from monitoring wells FS-MW-1, FS-MW-005B & -005C, FS-MW-007B & -007C, FS-MW-008B, FS-MW-012C, FS-MW-013A & -013B at concentrations ranging from 0.24  $\mu$ g/L to 3.7  $\mu$ g/L. No NY Class GA standard currently exists for 1,4-dioxane.

# 5.6.3 Pesticides

5.6.3.1 Pesticides in Waterloo APS<sup>TM</sup> Groundwater Samples

The analytical results for pesticides from 23 Waterloo APS<sup>™</sup> groundwater profile samples are presented in Table 8. No pesticides were detected at concentrations above their respective NY Class GA Standard.

5.6.3.2 Pesticides in Groundwater Monitoring Well Samples

The analytical results for Pesticides from 22 groundwater samples collected from the monitoring wells are presented in Table 9.

Alpha hexachlorocyclohaxane was detected in the groundwater sample collected from monitoring well FS-MW-012B at a concentration of 0.01J  $\mu$ g/L that is equal to its NY Class GA Standard of 0.01J  $\mu$ g/L.

No other pesticides were detected in groundwater at concentrations that exceed their respective NY Class GA standards.

# 5.6.4 Polychlorinated Biphenyls (PCBs)

5.6.4.1 PCBs Waterloo APS<sup>TM</sup> Groundwater Samples

The analytical results for PCBs from 23 Waterloo APS<sup>™</sup> groundwater profile samples are presented in Table 8. No PCBs were detected in the groundwater samples.

# 5.6.4.2 PCBs in Groundwater Monitoring Well Samples

The analytical results for pesticides from 22 groundwater samples collected on- and off-site are presented in Table 9. No PCBs were detected in the groundwater samples.

# 5.6.5 Metals

5.6.5.1 Metals in Waterloo APS<sup>TM</sup> Groundwater Samples

The analytical results for metals from 23 Waterloo APS<sup>™</sup> groundwater samples are presented in Table 8.

Seven metals (cadmium, copper, iron, lead manganese, nickel and sodium) were found in one or more Waterloo APS<sup>TM</sup> groundwater samples at concentration exceeding their respective NY Class GA Standard. Magnesium was detected at a concentration exceeding its NY Class GA Guidance value.

The concentration of copper (58.3 milligrams per liter  $\{mg/L\}$ ) in the shallow groundwater sample collected at FS-APS-004 prompted NYSDEC to request installation of temporary wells FS-TMW-001 through FS-TMW-004 in an attempt to delineate the presence of elevated levels of copper in groundwater in the vicinity of this location.

Several other metals were detected at concentrations below their respective NY Class GA Standard or guidance value.

#### 5.6.5.2 Metals in Groundwater Monitoring Well Samples

The analytical results for metals from 22 groundwater samples collected from monitoring wells are presented in Table 9.

Ten metals (arsenic, cadmium, chromium, copper, iron, lead, manganese, mercury, nickel and sodium) were found in one or more groundwater monitoring well samples at concentration exceeding their respective NY Class GA Standard. Beryllium and magnesium were detected in one or more groundwater monitoring well samples at concentrations exceeding their respective NY Class GA Guidance values.

Temporary well FS-TMW-002 was not sampled due to a decline in groundwater level at that location between the time the well was installed and developed, and the groundwater monitoring well sampling event. Copper was detected in groundwater samples collected from wells FS-TMW-001, -003 and -004 as well as FS-MW-005A, -012A and -012B at concentrations from ranging from 2.5 mg/L to 86.2 mg/L which exceed its NY Class GA Guidance Value of 0.2 mg/L.

Several other metals were detected at concentrations below their respective NY Class GA Guidance values.

Figure 20 illustrates that exceedances of the NY Class GA Groundwater Standard for copper detected in groundwater samples from all well locations.

#### 5.6.6 Total Cyanide

5.6.6.1 Total Cyanide in Waterloo APS<sup>TM</sup> Groundwater Samples

The analytical results for total cyanide from 23 Waterloo APS<sup>TM</sup> groundwater samples are presented in Table 8.

Total Cyanide was detected in Waterloo APS<sup>™</sup> groundwater samples at five locations: FS-APS-003, FS-APS-006, FS-APS-007, FS-APS-008 and FS-APS-011 at concentrations ranging from 0.0054 mg/L to 0.019 mg/L which are all below the 0.2 mg/L NYS GA Standard.

5.6.6.2 Total Cyanide in Groundwater Monitoring Well Samples

The analytical results for total cyanide in 22 groundwater monitoring well samples are presented in Table 9.

Total Cyanide was detected in groundwater samples collected from at six groundwater monitoring wells (FS-MW-002A, FS-MW-007A FS-MW-008B FS-MW-012B FS-MW-1 and FS-MW-3) at concentrations ranging from 0.0055 mg/L to 0.0078 mg/L which are all below the 0.2 mg/L NYS GA Standard.

## 5.6.7 Total Organic Carbon (TOC) and pH

5.6.7.1 TOC and pH in Waterloo APS<sup>TM</sup> Groundwater Samples

The analytical results for TOC and pH from groundwater samples are presented in Table 10.

The pH values in the 23 on-site Waterloo APS<sup>TM</sup> samples ranged from 5.33 to 8.22. The pH of two samples (FS-APS-001 and FS-APS-004) were below the NYS Class GA Standard range of 6.5 to 8.5.

Detected TOC concentrations ranged from 0.44 to 3.2 mg/L.

5.6.7.2 TOC and pH in Groundwater Monitoring Well Samples

The analytical results for TOC and pH from groundwater monitoring well samples are presented in Table 11.

The pH values in on-site groundwater ranged from 6.54 to 7.88, which are within the NYS Class GA Standard range of 6.5 to 8.5.

TOC concentrations ranged from 0.54 to 2.4 mg/L.

## 5.6.8 **PFOA and Other PFAS**

5.6.8.1 PFOA and Other PFAS in Waterloo APS<sup>TM</sup> Groundwater Samples

The analytical results for PFOA and other PFAS from 23 discrete depth Waterloo APS<sup>™</sup> groundwater profile samples plus duplicates are presented in Table 10. PFOA concentrations in

groundwater ranged from 14 to 2,500 J ng/L. The highest concentration of PFOA was detected in the lower sand and gravel unit at location FS-APS-011.

PFOS concentrations ranged from below the detection limit to a maximum concentration of 12 ng/L.

#### 5.6.8.2 PFOA and Other PFAS in Groundwater Monitoring Samples

The analytical results for PFOA and other PFAS from groundwater samples collected from 22 monitoring wells are presented in Table 11. PFOA results are posted on Figure 21. Total PFOA concentrations are posted adjacent to each well screen on cross sections A-A', B-B' and C-C' presented in Figures 22, 23 and 24, respectively.

PFOA concentrations in groundwater ranged from below the detection limit to 2,200 ng/L, which is similar to the range of 14 to 2,500 J ng/L observed in the Waterloo APS<sup>™</sup> groundwater profile sampling. The highest concentration of PFOA was detected at water table well FS-MW-4, one of the three pre-existing wells in and around the property.

PFOS was detected in 15 of the 22 groundwater samples. Concentrations of PFOS ranged from below the detection limit to a maximum concentration of 11 ng/L.

## 5.7 FREE-PHASE OIL SAMPLE ANALYTICAL RESULTS

As noted in Sections 4.7.1 and 4.73, a minimal amount free-phase oil was observed in the drilling water return to the mud pan during drilling of the exploratory soil boring and installation of groundwater monitoring well FS-MW-007A. The amount of oil was minimal and it was necessary to skim the oil off the water surface in several drums used to contain the water from the drill pan in order to obtain enough sample volume for the analytical laboratory. Waste classification samples WC-19FS and WC-22FS were analyzed for PFAS, TCL organic and TAL inorganic compounds, product finger printing, and total organic carbon. Analytical result of the oil sample are presented in Table 12.

There were no detections for Pesticides, PCBs, VOCs, SVOCs, or Cyanide. PFOA was detected at a concentration of 0.0016 mg/kg. Petroleum fingerprint analysis detected motor oils at a concentration of 200,000 mg/kg and unknown hydrocarbons at a concentration of 130,000 mg/kg. Several metals were detected at concentrations ranging from 0.27 to 58.1 mg/kg, with the two highest concentrations being sodium and calcium. TOC was detected at a concentration of 79,900 mg/kg.

#### 5.8 ASSESSMENT OF DATA QUALITY

#### 5.8.1 Data Quality Objectives

Data Quality Objectives (DQOs) are qualitative and quantitative criteria used to support the decision-making process. DQOs define the uncertainty in analytical data and consider precision, accuracy, representatives, completeness, and comparability (PARCC):

- **Precision** is a measure of mutual agreement among measurements of the same property usually under prescribed similar conditions. Precision is best expressed in terms of the standard deviation.
- Accuracy is the degree of agreement of a measurement (or an average of measurements) with an accepted reference of "true value". Accuracy is an estimate of potential numerical bias (i.e., low or high) in analytical data.
- **Representativeness** expresses the degree to which data parameter variations at a sampling point indicate a process condition, or an environmental condition.
- **Completeness** is a measure of the amount of valid data obtained compared to the amount that was expected to be obtained under correct normal conditions.
- **Comparability** expresses the confidence with which one data set can be compared with another. Comparability is a qualitative measurement. Comparability is assessed by reviewing results or procedures for analytical data that do not agree with expected results.

All soil samples were analyzed by Alpha Analytical Inc.'s (Alpha) laboratory in Westborough, Massachusetts except PFAS analyses was performed by Vista Analytical Laboratory, under subcontract to Alpha. A NYSDEC Analytical Services Protocol (ASP) Category B deliverable was provided for all data.

All groundwater samples were analyzed by Eurofins Lancaster Laboratories Environmental. A NYSDEC ASP Category B deliverable was provided for all data. Table 4 presents each sample and the analytical tests performed. Samples were analyzed for one or more of the following tests. More detailed information about each test is provided in Table 13.

The Quality Assurance Officer carried out a preliminary review of the data packages. The groundwater data were validated by an independent third party, Environmental Data Services, Inc. (EDS), located at 177 Herman Melville Avenue, Newport News, Virginia. The review of the sampling data by EDS was performed in accordance with the:

- Analytical methods;
- NYSDEC ASP (NYSDEC, 2010a);

- USEPA CLP National Functional Guidelines for Organic Superfund Data Review (USEPA, 2017a);
- USEPA CLP National Functional Guidelines for Inorganic Superfund Data Review (USEPA, 2017b);
- Applicable USEPA Region II Data Review Standard Operating Procedures; and
- Reviewer's professional judgment.

The order in which the aforementioned guidance documents and/or criteria were listed as being used for validation does not imply a hierarchy of reliance. The most comprehensive reference sources were used to perform a complete data validation.

## 5.8.2 Data Usability

Data validation reports (DVRs) were prepared for all samples based upon the data review. The DVRs consist of a section that contains an assessment of the deliverables, followed by a section that describes the analytical results and any qualifications that should be considered when using the data. The DVRs highlight the data results that did not meet QC limits and therefore required data qualification. These tables include information such as, blank contamination, surrogate recoveries, and internal standard area counts that did not meet QC criteria.

The following items/criteria were reviewed for Organics:

- Case narrative and deliverables compliance;
- Holding times both technical and procedural and sample preservation (including pH and temperature);
- System Monitoring Compound (Surrogate) recoveries and summaries;
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) results, recoveries and summaries;
- Laboratory Control Sample (LCS) or Blank spike (BS) results, recoveries and summaries;
- Method blank results and summaries;
- Gas Chromatography (GC)/Mass Spectroscopy (MS) tuning and performance;
- Initial and continuing calibration summaries;
- Internal standard areas, retention times and summaries;
- Field and Trip Blank Data when applicable;
- Blind Field Duplicate sample results when applicable
- Organic analysis data sheets (Form I);

- GC/MS chromatograms, mass spectra and quantitation reports
- Quantitation/detection limits; and
- Qualitative and quantitative compound identification.

The following items/criteria were reviewed for the Inorganics:

- Case narrative and deliverable requirements;
- Holding times and sample preservation;
- Detection limits;
- Inorganic analysis data sheets (Form I);
- Initial and continuing calibration verifications;
- Contract Required Detection Limit (CRDL) standard analysis;
- Lab blank data;
- Inductively Coupled Plasma Spectroscopy (ICP) interference check sample (ICS) analysis;
- Matrix Spike analysis;
- Matrix Duplicate analysis;
- LCS results;
- ICP serial dilution analysis;
- Field Blank results when applicable; and
- Blind Field Duplicate results when applicable.

Qualification of data, where appropriate, was made by the use of qualifier codes based upon the data validation process. These qualifiers are defined in the data tables where used and serve as an indication of the qualitative and quantitative reliability of the data.

The final review of the all DVRs was performed by an ERM or CHA Quality Assurance Officer. The validation indicated that all data are valid and usable for the purposes of the SC with the few exceptions described in the DVRs.

According to the laboratory job narratives, all samples were received within temperature requirements and holding times. Refer to individual laboratory analytical reports in Appendix D for detailed information contained within the job narratives. The DUSRs associated with the site characterization samples are included in Appendix F. As a result of the validation process, some

analytical data were qualified as estimated (J, J+, J-, UJ). All analytical data were considered usable except the following, which were qualified as "rejected, unusable" (R):

- The "not detected" results for 15 acid extractable compounds in sample "SOIL-SC024(8'-10');
- The positive pesticide results for heptachlor epoxide and endosulfan sulfate in sample "SOIL-SC023(12'-13');
- The positive pesticide result for endosulfan II and the "not detected" PFAS results for PFDS and FOSA in sample "SOIL-DUP-SC002";
- The positive pesticide results for dieldrin and endosulfan II in sample "SOIL-S105A1"; and
- The positive pesticide results for delta-BHC in samples "SOIL-B113" and "SOIL-S150".

All data that are not qualified rejected, unusable (R) are considered usable, with estimated (J, J+, Jor UJ) data associated with a higher level of quantitative uncertainty.

Data Quality Objectives (DQOs) are qualitative and quantitative criteria used to support the decision-making process. DQOs define the uncertainty in analytical data and consider precision, accuracy, representatives, completeness, and comparability (PARCC).

## Soil Field Duplicate Samples (CHA)

For quality assurance/quality control purposes, field duplicate soil samples were collected and analyzed during the IRM activities and the soil characterization boring program. One field duplicate sample was collected and analyzed for site characterization parameters during the IRM activities. The sample was identified as "Soil-DUP103" and was a duplicate of sample "Soil-S142", collected from the copper press area (AOC10).

Two field duplicate soil samples were collected during the soil boring program in May 2018. Samples "SOIL-DUP-SC001" from the East Side, a duplicate of sample SC007(8'-12') and "SOIL-DUP-SC002" from the West Side, a duplicate of sample SC020(8'-12'), were collected and analyzed for the following parameters: TCL VOCs; TCL SVOCs; TCL pesticides; TAL metals; PCBs; total cyanide; 1,4-dioxane; and PFAS.

An additional field duplicate sample, identified as "SOIL-DUP104", a duplicate of sample "SOIL-SC032(4'-8'), was collected during the supplemental soil boring work in the vicinity of boring SC004 in July 2018, and was analyzed for arsenic and PFAS only.

For each duplicate sample, analytical results were compared to the results of its corresponding primary sample and a relative percent difference (RPD) was calculated for each parameter. The RPD is used to express the precision of measurements between detected analytes in a sample and its duplicate. An RPD of 20% is generally considered the maximum allowable RPD. Calculated RPDs for detected analytes in the above-referenced sample sets were below 20% except for three analytes in the "SOIL-S142" and "SOIL-DUP103" sample pair and two analytes in both the "SOIL-SC007(8'-12')" and "SOIL-DUP-SC001" sample pair and the "SC032(4'-8')" and "SOIL-DUP104" sample pair. In addition, several analytes exhibited RPDs greater than 20% in the "SOIL-SC020(8'-12')" and "SOIL-DUP-SC002" sample pair. Specific analytes in each sample pair and their RPD values are included in Table 14, attached.

Elevated RPDs are not uncommon with soil sampling data, based on non-homogeneity of soil samples. The large number of RPDs above 20% in the "SOIL-SC020(8'-12')" and "SOIL-DUP-SC002" sample pair is likely attributable to the variability within the sample matrix, as the soil conditions within the 8'-12' depth interval included industrial fill materials. The analytical data are considered usable; however, with a higher degree of quantitative uncertainty.

#### Groundwater Field Duplicate Samples (ERM)

As part of the data QA/QC objectives, ERM collected field duplicate APS and groundwater monitoring well water samples during the SC activities.

Two field duplicate samples were collected during the initial permeability profiling/sampling activities. These samples were identified as FS-APS-DUP1(10312018) and FS-APS-DUP2(11082018) which were collected alongside FS-APS-003(14)(10312018) and FS-APS-005(83.1)(11082018), respectively.

Two field duplicate samples were collected during the groundwater monitoring well sampling event. Theses samples were identified as DUP-07242019 and DUP-07232019 which were collected alongside FS-MW-002A(11.5)(07242019) and FS-MW-008B(37.5)(07232019), respectively.

No significant deviations were present between origin samples and their field duplicates.

#### 5.9 UNDERGROUND STORAGE TANK GEOPHYSICAL SURVEYS

The geophysical survey performed by NYLD located subsurface targets approximately five feet bgs in an area measuring approximately 40 ft by 20 ft. This footprint is large enough to accommodate both the 15,000-gallon and 1,500-gallon USTs if laid end to end. NYSEC Bulk Storage Data records and a report from NYLD showing the results is presented in Appendix G.

#### 5.10 DRONE INFRARED SURVEY RESULTS

A summary of the infrared survey screening results is presented in Appendix H (Figures 25a-k) that indicate multiple elevated temperature shoreline areas which represent potential groundwater discharge to the Hoosic River to be considered for further empirical evaluation. These locations were qualified based on the presence of relatively warm temperature signatures along the riverbank or the base of the flood control wall system. Thermal images were compared to high-resolution orthoimages to eliminate the possibility of false temperature signatures such as sunlight reflecting off the water surface.

# 6.0 FINDINGS

## 6.1 GEOLOGY

- The overburden sequence represents a proglacial depositional environment with indications of ice sheet advance and recession evidenced by successional layers of glacial outwash sands and gravels, glacial till, glaciolacustrine silt and clay deposits capped with shallow post-glacial alluvial riverine deposits and fill at the ground surface.
- Overburden units at the Site typically consist of an upper sand unit with lesser amounts of gravel and silt. The upper sandy layer is underlain by a clay and silt unit intermittently interbedded with glacial till and laterally continuous across most of the Site. The clay and silt units are typically underlain by a lower sand and gravel unit with interbedded sandy silt beds, except on the southern end of the Site where the lower sand and gravel unit was not encountered. The lower sand and gravel unit is typically underlain by a diamict unit of varying thickness. A glacial unit of varying thickness is typically found above the bedrock. Bedrock (Woolamsic Shale) beneath the Site is dark gray to black slate or phyllite, and typically weathered at the boundary between overburden and competent rock.
- Depth to bedrock is variable from south to north across the Site. Bedrock occurs at approximately 75 feet bgs on the south dipping to approximately 145 feet bgs near the middle and then rising up to approximately 25 feet bgs on the north adjacent to the Hoosic River. Accordingly, overburden thicknesses mirror the depths to bedrock across the Site.

## 6.2 HYDROGEOLOGY

- Groundwater is encountered in the overburden at the Site at depths of approximately 10 to 15 feet bgs. Groundwater flow in the shallow sandy overburden and deeper sand and gravel units is towards the north and west (i.e., towards the Hoosic River). Groundwater elevation data indicate that the vertical gradients across the Site are typically negative (-0.002 to -0.061 {(dimensionless}) and indicate a net potential for downward groundwater flow from the upper sandy unit through the clay and silt unit towards the lower sand and gravel unit.
- The upper sandy unit at the Site is an unconfined hydrogeologic unit, and the lower sand and gravel unit is considered to be a semi-confined hydrogeologic unit. Groundwater flow in bedrock occurs predominantly through joints, fractures, faults, and foliation in the bedrock.

## 6.3 SUBSURFACE SOIL QUALITY

Soil sampling results indicate the following:

VOCs:

- On the east side of the Site, detected VOCs were limited to acetone, carbon disulfide, chloroform, cyclohexane, methyl ethyl ketone and toluene. One or more of these compounds was detected in nine of the collected samples (at depths greater than 4 feet bgs); however, no VOCs were detected at concentrations exceeding the Commercial or Industrial Use SCOs. No chlorinated VOCs were detected.
- On the west side of the Site, detected VOCs included a number of VOCs but none of these compounds was detected at concentrations exceeding their respective Commercial and Industrial Use SCOs. No chlorinated VOCs were detected.

#### SVOCs:

- On the east side of the Site, detected SVOCs were found in\_six of the 25 samples submitted for analysis. In five of these six samples, multiple SVOCs were detected at estimated concentrations above the Method Detection Limit (MDL), but below the laboratory Reporting Limit (RL). In sample SOIL-SC004 (4'-8') only benzo(a)pyrene detected at a concentration of 1.7 ppm, slightly exceeded its Industrial Use SCO of 1.1 ppm.
- On the west side of the Site, one or more SVOCs were detected in 10 of the 12 samples submitted for analysis. Specifically, the following six SVOCs were detected at concentrations exceeding the Industrial Use SCOs in one or more samples: benzo(a)anthracene; benzo(a)pyrene; benzo(b)fluoranthene; chrysene; dibenzo(a,h)anthracene; and indeno(1,2,3-cd)pyrene. Only dibenzo(a,h)anthracene in one sample exceeded the Commercial SCO at a depth of 12-13 feet bgs.

#### Pesticides:

- On the east side of the Site, a total of 25 site characterization soil samples were analyzed for TCL Pesticides: 19 samples from the IRM activities; and 6 samples from the soil boring program. Detected pesticides were limited to 4,4'-dichlorodiphenyltrichloroethane (DDT) in the Spent Tank Bottom sample, and delta-BHC in the S118 sample. However, neither of these compounds was detected at a concentration exceeding its Commercial or Industrial Use SCOs.
- On the west side of the Site, pesticides were detected in two of the samples. However, based on data validation, the pesticide results for both samples were rejected and are considered unusable.

## PCBs

- On the east side of the Site, PCBs were detected in the S105A1 sample (Treater 4&5 area) and at boring location SC004; however, the detected concentrations did not exceed the Industrial Use SCO.
- On the west side of the Site, A total of 12 site characterization soil samples were analyzed for PCBs but PCBs were not detected in any of the samples submitted for analysis.

## Metals

- On the east side of the Site, arsenic was the only metal detected in any of 36 samples at concentrations exceeding its Part 375 Commercial and Industrial Use SCOs. Arsenic exceeded the Commercial and Industrial Use SCO of 16 ppm at the following sampling locations: borings SC004; SC004A; and SC014. Arsenic concentrations at these locations (at depths greater than 4 feet bgs) ranged from 21.9 to 125 ppm. Copper exceeded the Commercial SCO in three samples at depths ranging from 4 to 13 feet below grade.
- Following IRM activities in 12 areas of concern, arsenic remained in several locations where further excavation appeared likely to impact a railroad embankment. Arsenic concentrations at these locations, all at depths greater than 4 feet bgs, ranged from 19.9 to 161 ppm.
- On the west side of the Site, arsenic was detected in sample SOIL-SC020(8'-12') at a concentration of 20.4 ppm, exceeding the Commercial and Industrial Use SCO of 16 ppm. Copper was not present above the Commercial or Industrial SCO in any sample.

## <u>Cyanide</u>

- On the east side of the Site, total cyanide was detected in one sample, SOIL-SC004(4'-8') located on the northwestern portion of the Site, at an estimated concentration of 0.27 ppm, which is below the Commercial and Industrial Use SCOs.
- On the west side of the Site, total cyanide was detected in a total of 12 samples, but all results were well below the Commercial and Industrial Use SCOs.

## PFAS and 1,4-Dioxane

- On the east Site, at least one PFAS compound was detected in 17 of the 19 samples collected from the IRM activities, and in all the samples collected during the soil boring program.
- PFOA was detected in all but four East Side samples. The highest concentration was detected at the location of boring SC004, on the northwestern portion of the Site.

- On the west side of the Site, PFOA was detected in three of the four samples ranging from 636 to 1,810 ppt. PFHxA was detected in sample SOIL-SC025 at a concentration of 109 ppt. No other PFAS were detected in these samples.
- The compound 1,4-Dioxane was not detected in either the east side or west sides of the Site.

# 6.4 **GROUNDWATER QUALITY**

Groundwater monitoring well sampling results indicate:

- VOCs: TCE, TCA; 1,1-DCA, cis-1,2-DCE, and 1,1-DCE were detected at concentrations exceeding their respective NYS Class GA Standards in groundwater. Total VOCs ranged from non-detect to 1,956 µg/L. TCE was the predominant VOC detected at concentrations ranging from 5.1 to 1,300 µg/L. Several other VOCs were detected in groundwater at concentrations below their respective NYS Class GA Standards.
- **SVOCs:** Only one SVOC, bis(2-ethylhexyl) phthalate was detected in one well at a concentration of 11  $\mu$ g/L, which exceeds its respective NYS Class GA Standard. This occurrence may be a result of equipment contamination. No other SVOCs were detected in groundwater at concentrations that exceed their respective NYS Class GA standards.
- **1,4-Dioxane:** 1,4-Dioxane was detected in groundwater samples collected from several monitoring wells at concentrations ranging from 0.24 µg/L to 3.7 µg/L. No NYS Class GA standard currently exists for 1,4-Dioxane.
- **Pesticides:** One pesticide (alpha hexachlorocyclohaxane) was detected in several groundwater samples but only one detection was at a concentration of 0.01J  $\mu$ g/L that is equal to its NYS Class GA Standard of 0.01  $\mu$ g/L. All other detections were lower estimated concentrations. No other pesticides were detected in groundwater at concentrations that exceed their respective NYS Class GA standards.
- **PCBs:** No PCBs were detected in the groundwater samples.
- **Metals:** Ten metals (arsenic, cadmium, chromium, copper, iron, lead, manganese, mercury, nickel and sodium) were found in one or more groundwater monitoring well samples at concentrations exceeding their respective NYS Class GA Standard. Beryllium and magnesium were detected in one or more groundwater monitoring well samples at concentrations exceeding their respective NYS Class GA Guidance values.

Seven metals (cadmium, copper, iron, lead, manganese, nickel and sodium) were found in one or more Waterloo APS<sup>TM</sup> groundwater samples at concentrations exceeding their respective NYS Class GA Standard. Magnesium was detected at a concentration exceeding its NYS Class GA Guidance value.

• Copper was detected in a Waterloo APS<sup>™</sup> groundwater profile sample at a concentration of 58.3 mg/L that exceeded its NYS Class GA Guidance Value of 0.2 mg/L. Based on this exceedance, NYSDEC requested installation of four temporary wells (FS-TMW-001

through -004) in an attempt to delineate the presence of elevated levels of copper in groundwater in the vicinity of this location. Copper was detected in groundwater samples collected from wells FS-TMW-001, -003 and -004 as well as FS-MW-005A, -012A and -012B at concentrations from ranging from 2.5 mg/L to 86.2 mg/L which exceed its NYS Class GA Guidance Value of 0.2 mg/L. Several other metals were detected at concentrations below their respective NYS Class GA Guidance. Temporary well FS-TMW-002 was not sampled due to a decline in groundwater level at that location between the time the well was installed and developed, and the groundwater monitoring well sampling event.

- **Cyanide:** Total cyanide was detected in several groundwater samples at concentrations ranging from below the detection limit to 0.0078 mg/L, which are all below the 0.2 mg/L NYS GA Standard. Weak acid dissociable cyanide was detected in several groundwater samples at concentrations ranging from below the detection limit to 0.024 mg/L. No NYS GA Standard or Guidance values are available for weak acid dissociable cyanide.
- **PFOA and PFOS:** PFOA concentrations in groundwater ranged from below the detection limit to 2,200 ng/L, which is similar to the range of 14 to 2,500J ng/L observed in the Waterloo APS<sup>TM</sup> groundwater profile sampling. PFOS was detected in 15 of the 22 groundwater samples wherein concentrations of PFOS ranged from below the detection limit to a maximum concentration of 11 ng/L.

## 6.5 FORMER PRODUCTION WELLS

- Up to seven former production wells on the First St. property were reportedly used by Oak Mitsui to supply on-site process water for Oak Mitsui's operations. Seven well locations are identified on a 1999 Site Plan provided by Oak Mitsui, with five of these locations identified as Wells "B", "C", "D" "E" & "F" and two unnamed. The two additional wells are indicated as "capped well" located to the south of Well C, and an unnamed well adjacent to Well B is located within the footprint of the former main facility building. Historical site drawings note the production capacities for Well B as 50 gpm; D as 150 gpm; E as 150 gpm and F as 50 gpm. Well C is listed as "obsolete". No other information has been located pertaining to the construction details or condition of these wells. Efforts to obtain drilling and construction records for the production wells from the drilling company whom reportedly installed the wells were unsuccessful.
- Wells E & F are located within vaults with standard street manholes. Shallow excavations were undertaken to locate Wells "B", "C", "D", and the two unnamed wells. Only Well B was located but found to be damaged at the surface, open and full of what appeared to be building demolition debris. Borehole geophysical logging using optical and acoustical televiewers determined Well E is approximately 82 feet deep with a 10-foot screen set from approximately 72 feet 82 feet bgs, and Well F is approximately 100 feet deep with a 17-foot screen set from approximately 83 feet 100 feet. Based on screened intervals, these wells are overburden wells, screened in the deep sand and gravel beneath the Site.

#### 6.6 UNDERGROUND STORAGE TANK

- Historical information indicates two USTs were identified on the Site that include a 15,000gallon No. 2 fuel oil tank and a 1,500 gallon No. 6 fuel oil tank that were closed-in place in March 1991 and December 1987, respectively. A geophysical survey performed located subsurface targets approximately five feet bgs in an area measuring approximately 40 ft by 20 ft. This footprint is large enough to accommodate both the 15,000-gallon and 1,500gallon USTs if laid end to end.
- A small amount of free-phase oil was observed during drilling of the exploratory soil boring and installation of groundwater monitoring well (FS-MW-007A) adjacent to the former USTs. Petroleum fingerprint analysis detected motor oils at a concentration of 200,000 mg/kg and unknown hydrocarbons at a concentration of 130,000 mg/kg. No detections of Pesticides, PCBs, VOCs, SVOCs, or Cyanide were reported. PFOA was detected at a concentration of 0.0016 mg/kg. Several metals were detected at concentrations ranging from 0.27 to 58.1 mg/kg, with sodium and calcium present at the two highest concentrations.
- The July 2019 groundwater sampling event, no measurable free-phase product was detected in water table well MW-07A.

#### 6.7 DRONE INFRARED SURVEY RESULTS

• The screening results of the infrared drone survey indicate multiple areas of elevated temperature along the shoreline. These areas represent locations of potential groundwater discharge to the Hoosic River.

# 7.0 CONCLUSIONS AND RECOMMENDATIONS

Oak Mitsui and Honeywell have conducted an extensive characterization of the Site focusing on soil and groundwater. The detection of arsenic in the soil led to an IRM where soil from 12 areas of concern were excavated. In most cases, the arsenic-contaminated soil was entirely removed. There remain a few locations where further excavation could not safely be completed, but the arsenic in those locations is located at least 4 feet below grade. With respect to other types of contaminants in the soil, no VOCs, PCBs, or Pesticides were detected above Commercial or Industrial SCOs. Only two SVOCs were detected at a concentration exceeding the Industrial Use SCO and both were located greater than 4 feet below grade. PFAS, which currently have no standards, were detected in numerous soil samples across the Site.

The investigation of groundwater was based on the installation and sampling of numerous wells installed in three different hydrostratigraphic zones. A number of chlorinated VOC compounds were found in the groundwater, but concentrations range from non-detect to  $6.29 \mu g/l$  in the shallowest zone. Higher concentrations of VOCs are present in a deeper sand and gravel unit located beneath a clay aquitard. These results, combined with an absence of VOCs in soils, indicate the Site is not a source of the VOCs.

Both arsenic and copper are metals known to be used at the Site. Arsenic was only detected in one groundwater sample at a concentration exceeding the groundwater standard at the south end of the Site. Copper was detected in concentrations exceeding the groundwater standard in several wells, but none in wells in the most downgradient location position on the Site. Based on the data, it does not appear that either arsenic or copper are migrating off-site in concentrations exceeding their respective groundwater standards.

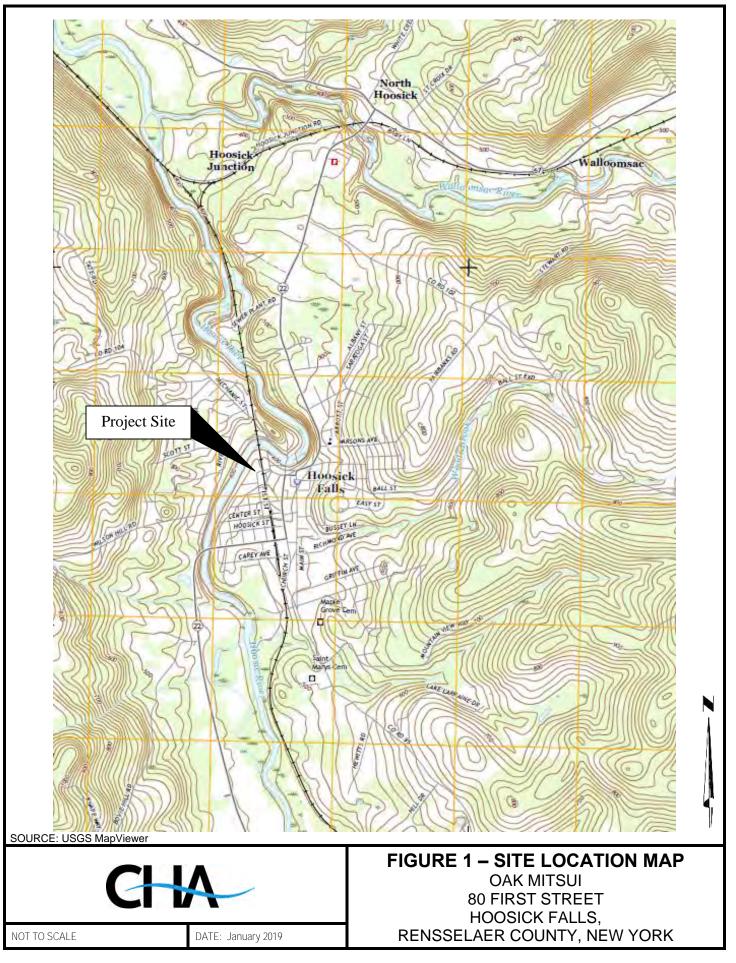
As noted in Section 2.2, PFOA and PFAS compounds were not known to have been used on-site by Oak Mitsui. However, PFOA was detected in many wells across the Site. While there is some overlap, the concentrations in the shallow wells are generally lower than in the deeper wells (360-1200 ng/l vs. 420-2200 ng/l), respectively

Based on these results, the threat, if any, to human health and the environment can be addressed through installation of a soil cap to prevent exposure to any of the Site contaminants, along with development of Site Management Plan to restrict any use of groundwater from the Site (either for potable or non-potable uses).

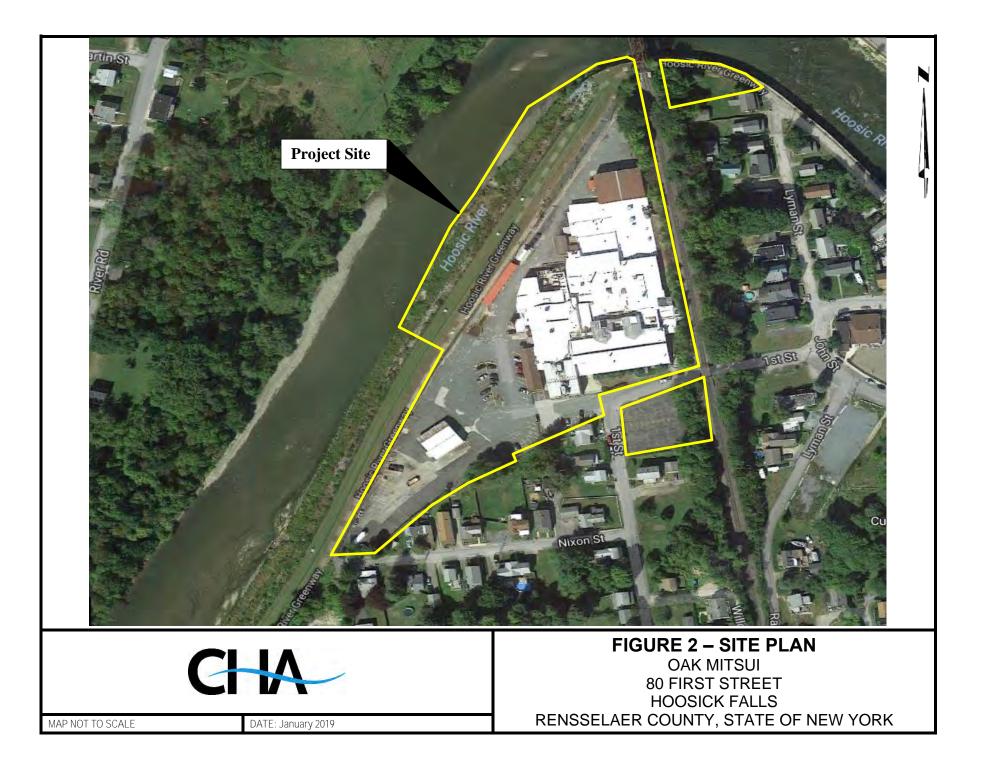
# 8.0 **REFERENCES**

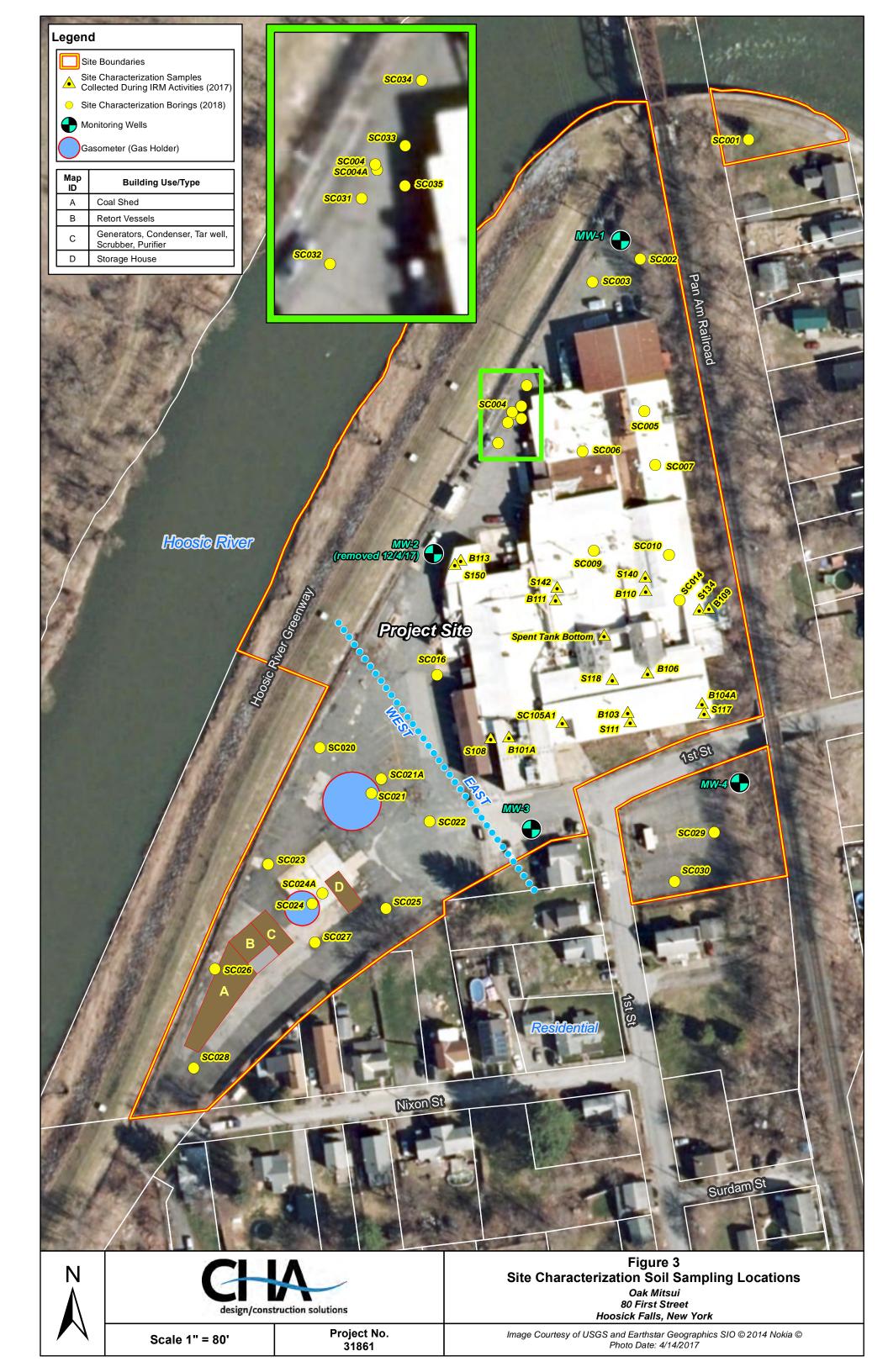
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**FIGURES** 



V:\Projects\ANY\K4\31861\Reports\IRM Work Plan\Draft\Figures\Figure 1 - Site Location.doc





Legend		
Site Boundaries	- MART	
Approx. Excavation Limits	Hooste River	
Soil Sample Location with SCO Exceedance		
Soil Sample Location with No SCO	2 arris	
Monitoring Wells		
Gasometer (Gas Holder)		A COMPANY AND A STREET AND A STREET
Note: Site buildings were demolished in 2017		
Map ID Building Use/Type		
A Coal Shed		MW-1
B Retort Vessels		
C Generators, Condenser, Tar well, Scrubber, Purifier		77% AOC 12 P
D Storage House	A STA	
*ppm - parts per million	A AND L	
*J: Result is less than reporting limit (RL) but greater than or equal to the	Constant and the second s	AOC 12 Pan Am Railroad
method detection limit (MDL) and the	SC004A (4'-8')	
concentration is an approximate	Arsenic 21.9 ppm	
Industrial Use Soil Cleanup Objectives Part 375	And the Score	
Analyte Ind. Use SCO	SC004 (4'-8')	
Arsenic 16 ppm	Arsenic 40.8 ppm SC004	SC014
Benzo (a) anthracene 11 ppm	Benzo (a) pyrene 1.7 ppm	Aragnia 125 ppm (4'-5')
Benzo (a) pyrene 1.1 ppm	Ceeping	Arsenic 91.2 ppm (13'-14')
Benzo (b) fluoranthene11 ppmChrysene110 ppm		S126 (51 91)
Dibenzo (a,h) anthracene 1.1 ppm	S S	Spent Tank (6'-10') Arsenic 19.9 ppm
Indeno (1,2,3-cd) pyrene 11 ppm	3	North Sidewall East
	AOC 11	Arsenic 68.3 ppm <b>S137 (5'-8')</b> Arsenic 161 ppm -
	(removed 12/4/17)	A0G 10
SC020 (8'-12') / DUP-SC002		Arsenic 68.3 ppm
Arsenic 20.4 ppm		AOG 7 AOG 8 S131 (2'-5')
Benzo (a) anthracene 150 ppm J		B107 S132 Arsenic 43.6 ppm
Benzo (a) pyrene 120 ppm J		
Benzo (b) fluoranthene         150 ppm J           Chrysene         120 ppm J		S130 S130 (2-5) Arsenic 107 ppm
Dibenzo (a,h) anthracene 4.7 ppm J		
Indeno (1,2,3-cd) pyrene 77 ppm J		
		A003 A004 Arsenic 141 ppm
SC021 (8'-10')	SC020	S115 (8'-12')           Arsenic         20.6 ppm
Benzo (a) anthracene 52 ppm		AOG 1 Arsenic 20.6 ppm
Benzo (a) pyrene 39 ppm		
Benzo (b) fluoranthene48 ppmDibenzo (a,h) anthracene4.4 ppm	SC021	CALL CONTRACTOR OF THE CALL
Indeno (1,2,3-cd) pyrene 24 ppm		IW-8 Spent Tank (6'-10') South Sidowall East
	0.	South Sidewall East           Arsenic         44.7 ppm
SC023 (12'-13')		
Benzo (a) pyrene 3.9 ppm	SC023	
	c	
	B	
		and a state of the

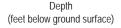
	Resid	Surdam)St
	A	<i>Figure 4</i> NYS Part 375 Industrial Use SCO Exceedances (as of Aug. 2018)
CHA		(Site Characterization and IRM Post-Excavation Samples)
		Oak Mitsui 80 First Street, Hoosick Falls, New York
Scale 1" = 80'	Project No. 31861	Image Courtesy of USGS and Earthstar Geographics SIO © 2014 Nokia © Photo Date: 4/14/2017



<u>SC028 (8'-</u> РFОА	12') SC028 1.81 ppb	Nixon St		Si C Si M	ite Characterization Samples ollected During IRM Activities (2017) ite Characterization Borings (2018) ionitoring Wells asometer (Gas Holder)	PFOS Perfluorooctanesulfonic acid ADDITIONAL PFAS COMPOUNDS DETECTED ARE LISTED IN TABLE 2
12000000						*ppb - parts per billion
200				Map ID	Building Use/Type	*J: Result is less than reporting limit (RL) but greater than or equal to the
32		Residential	1-7	А	Coal Shed	method detection limit (MDL) and the concentration is an approximate
E Later 1		a set	Carlor and	В	Retort Vessels	
and the				С	Generators, Condenser, Tar well, Scrubber, Purifier	*U: Not detected *B: Compound also detected in method
5 E 3 18		South last 1000 1000	100	D	Storage House	blank
and a little			T	-		
				Figure	5	
	CHA			Site Characterization Soil Sampling - PFOA and PFOS Detections Oak Mitsui 80 First Street Hoosick Falls, New York		
	Scale 1" = 80'	Project No. 31861	Image Courtesy of USGS and Earthstar Geographics SIO © 2014 Nokia © Photo Date: 4/14/2017			

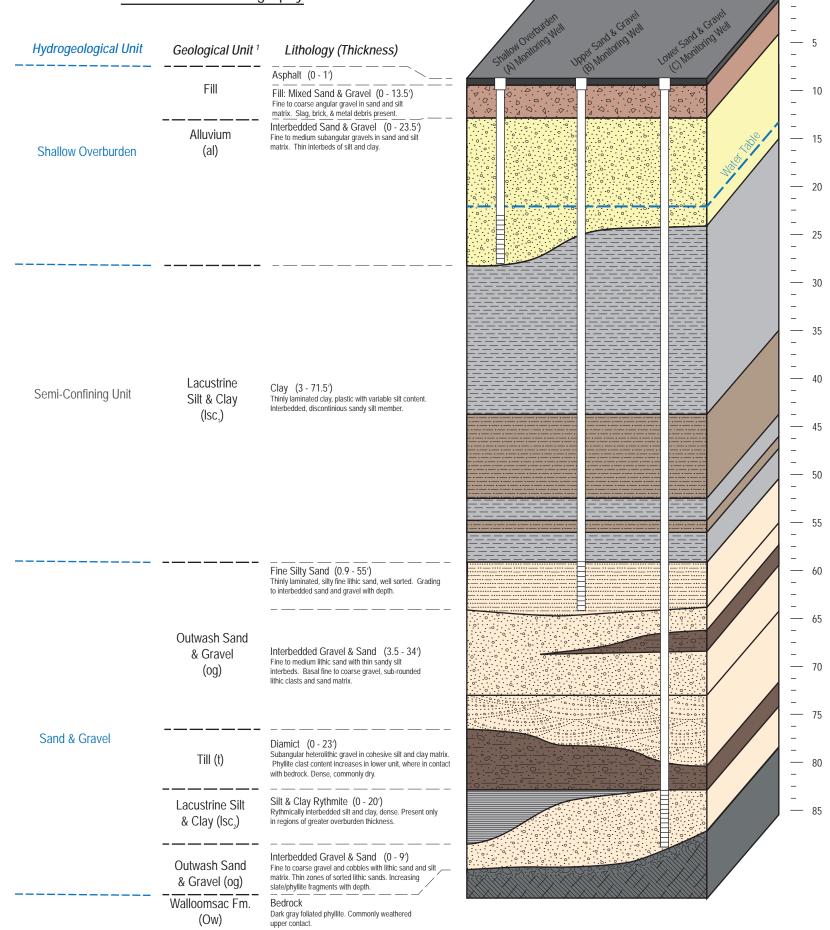






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#### Notes:

- Except for fill, geological unit nomenclature is from the Surficial Geologic Map of New York, Hudson-Mohawk Sheet (Caldwell and Dineen, 1987).
- 2 Lithological descriptions, thickness ranges, and approximate water table elevations are from ERM's on-site boring logs.

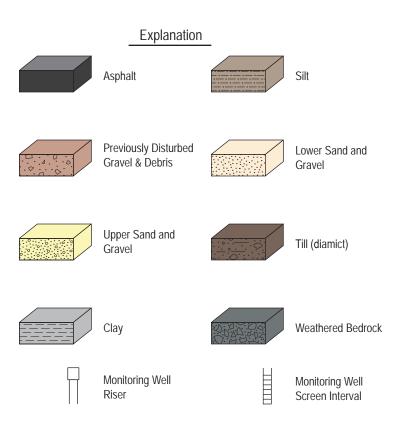
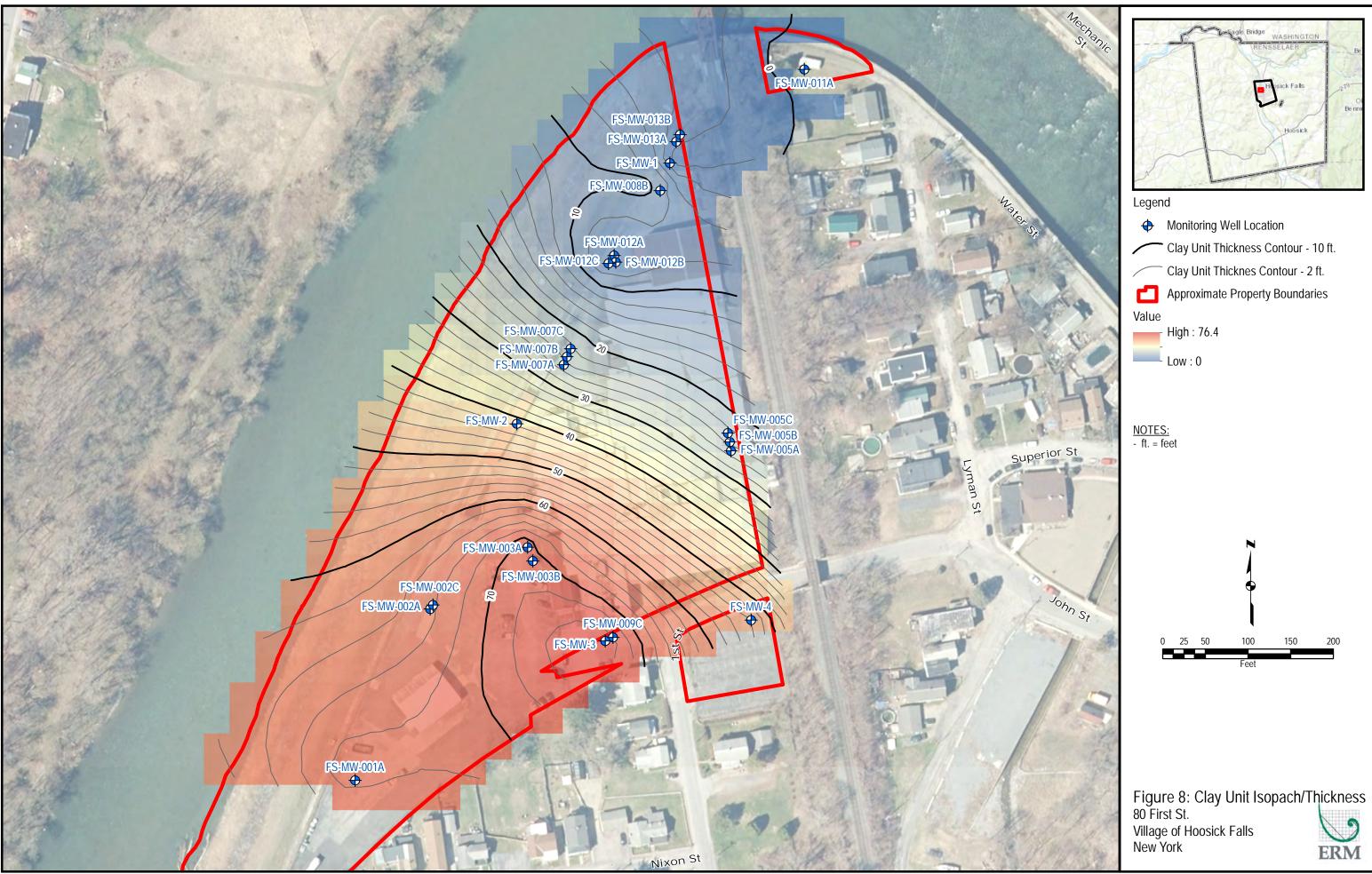
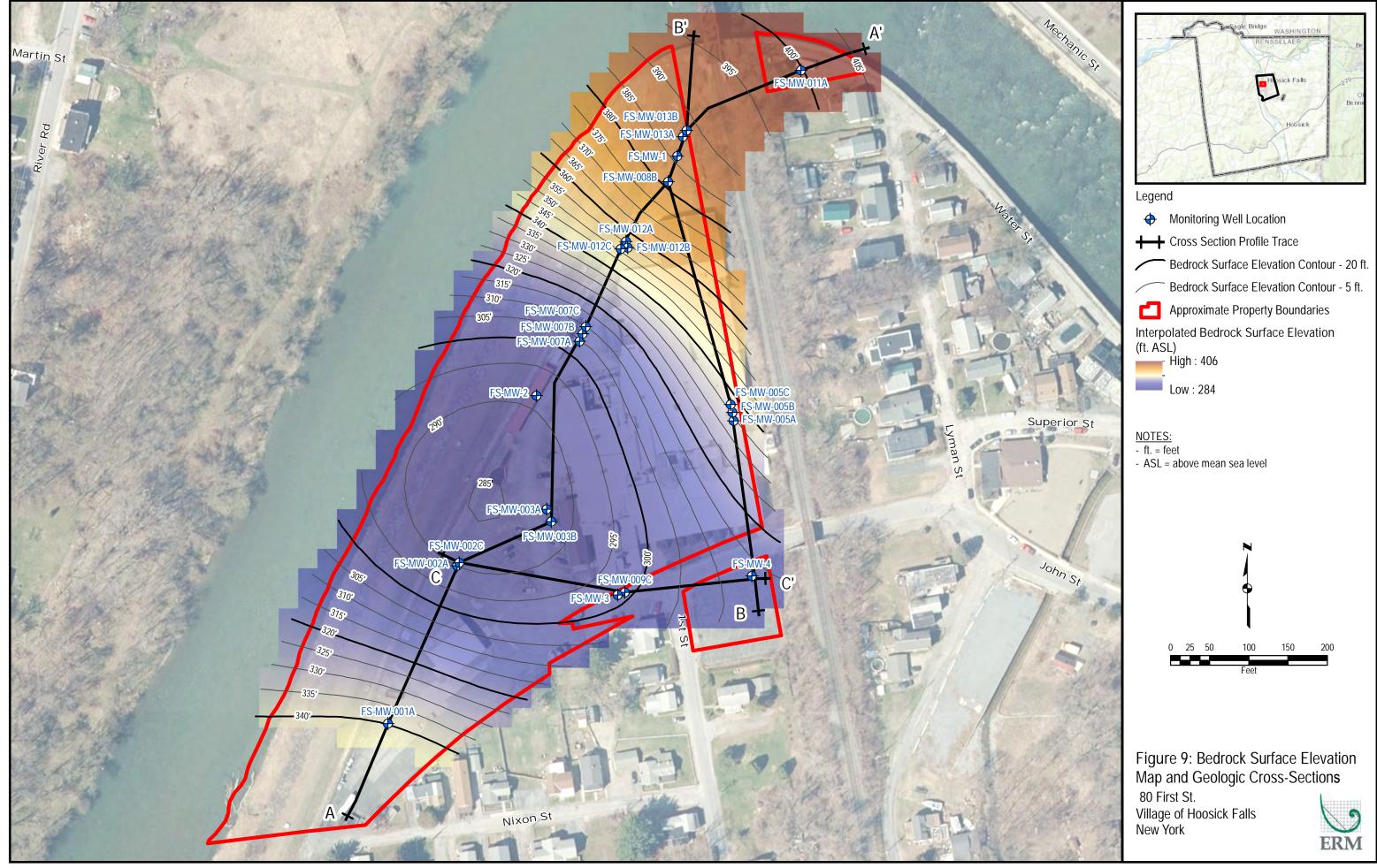


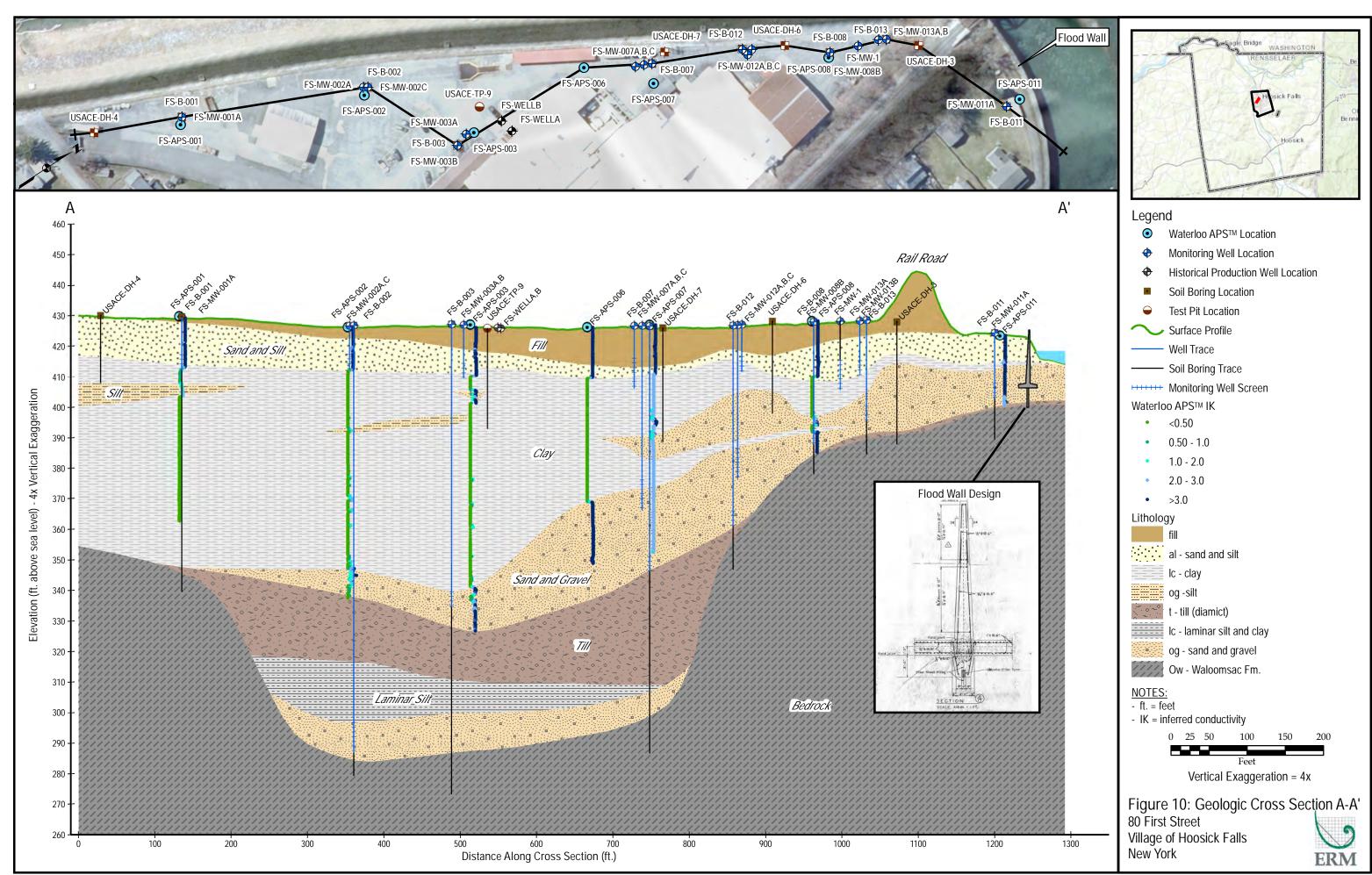
Figure 7: Typical Stratigraphic Section 80 First Street Property Village of Hoosick Falls New York

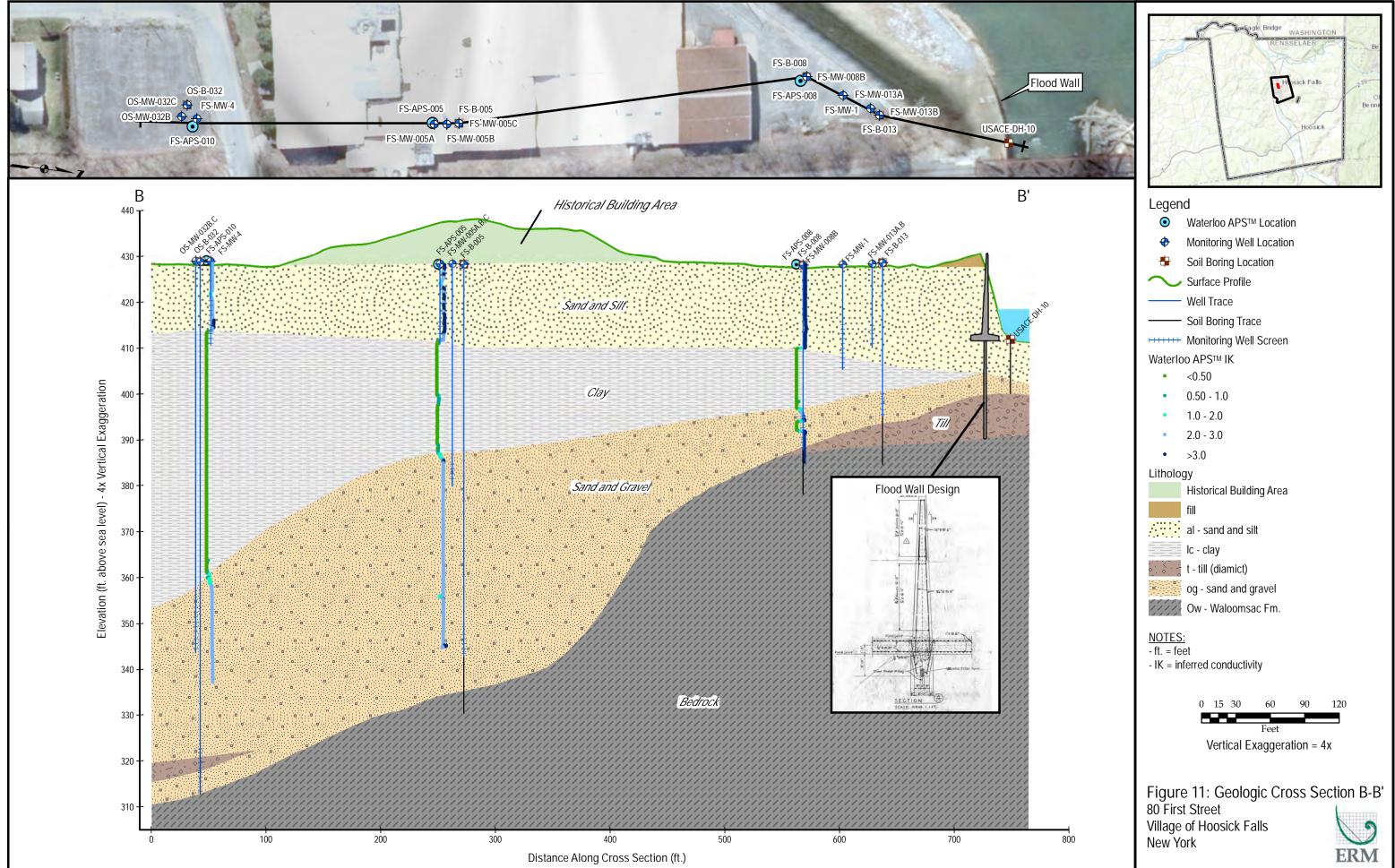




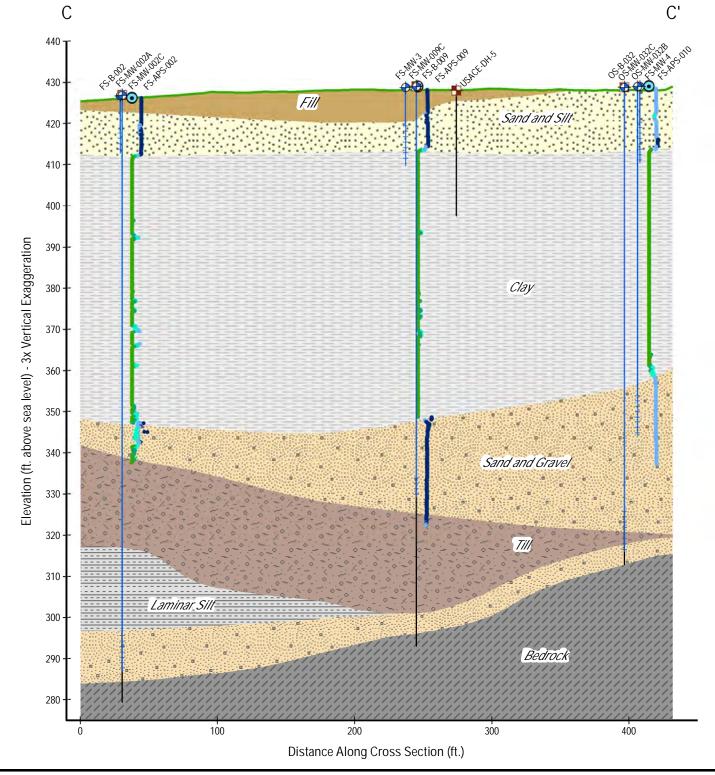


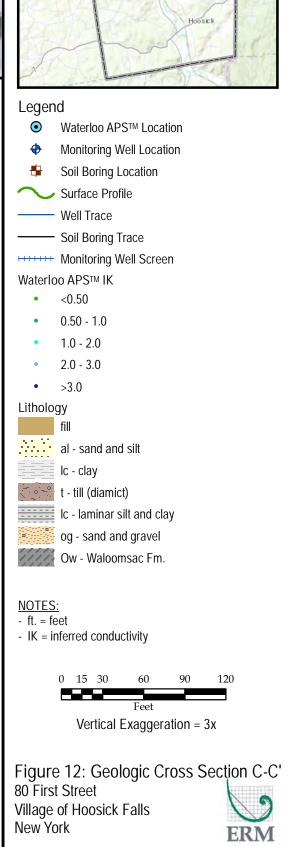
IDMMVIClients. A\_E WrnoldandPorter/HoosickFalls/MXDISC Report/80\_FSVFig9\_80\_FS\_BedrockSurface\_Xsections\_20200214,mxd - Olivia.Botting - 5/6/2020







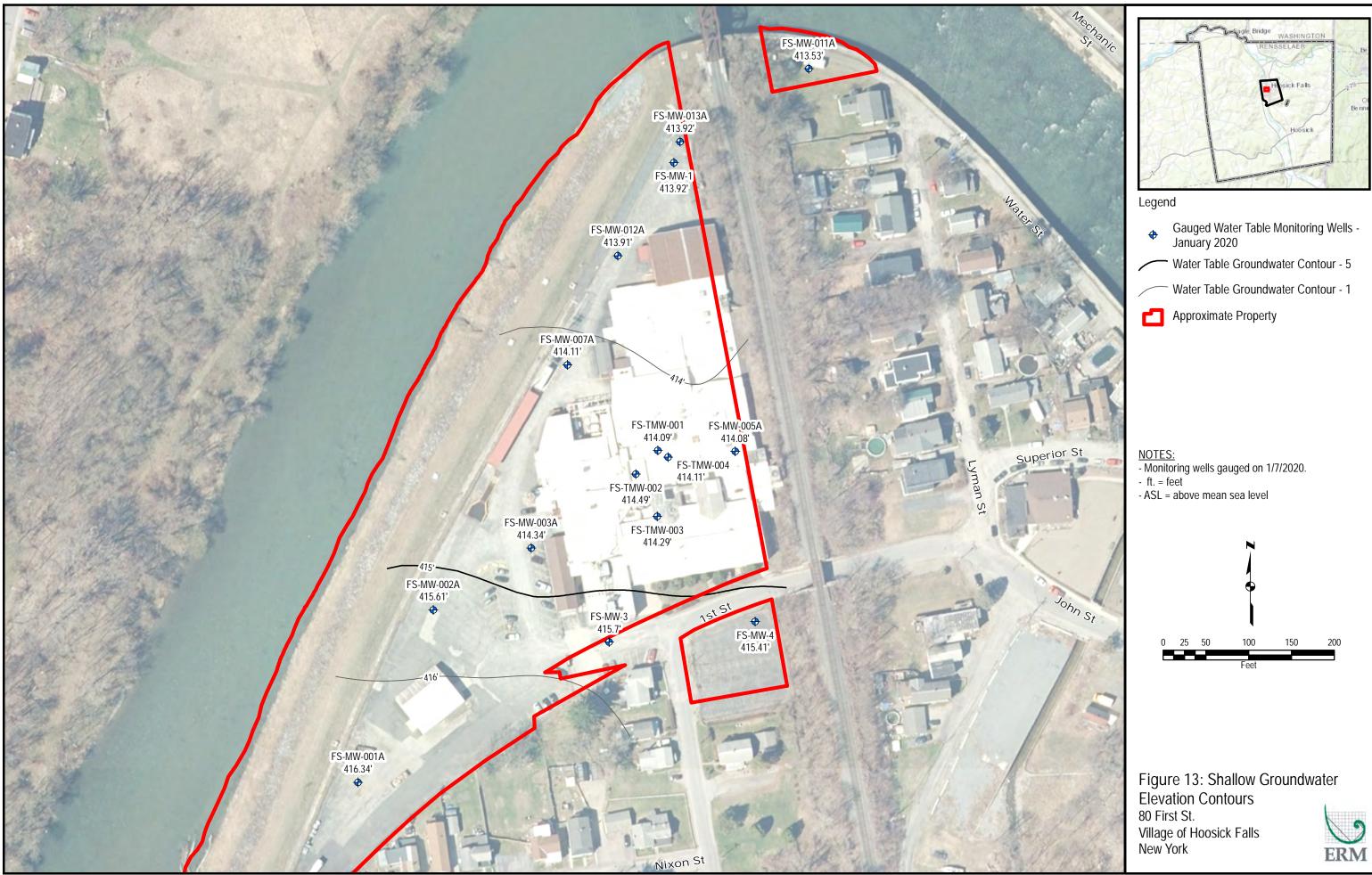




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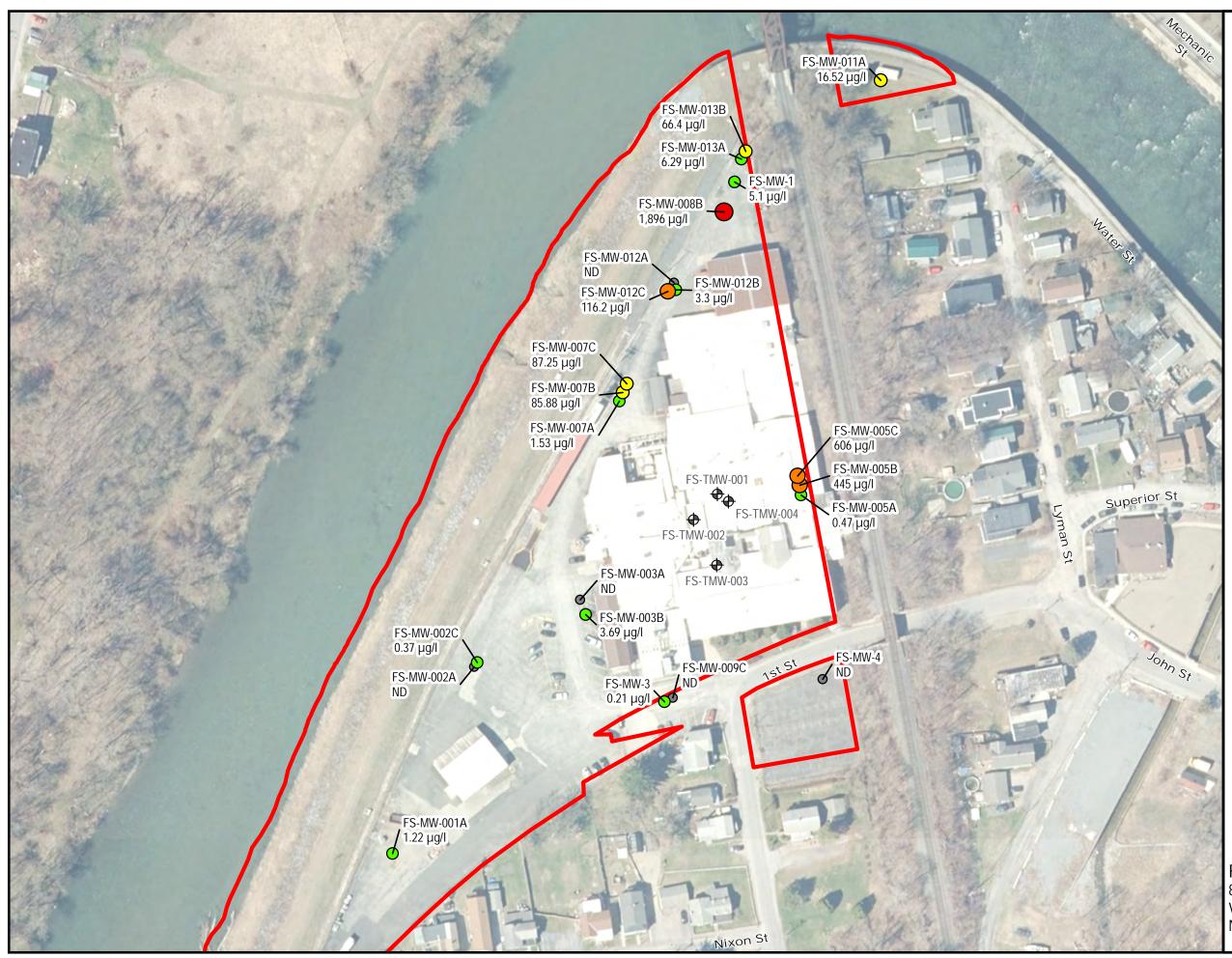
Hobsick Falls

MV/Clients\_A\_E.VrnoldandPorter/HoosickFalls/MXD/CrossSections/2020-01\_FS\_SCreport(C-C\_FS\_GeologicalSection\_202009.mxd - Olivia.Botting - 5/6/2020











Legend

VOC Concentrations in Overburden Groundwater

Total VOCs (µg/l)

• Non-detect



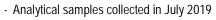
- 0 10 100
- 0 100 1,000
- 1,000 1,896

Well Not Sampled for VOCs

Approximate Property Boundaries

### NOTES:

- VOC = Volatile Organic Compounds
  μg/l = micrograms per liter
  RL = reporting limit
  ND = non-detect



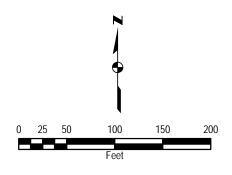
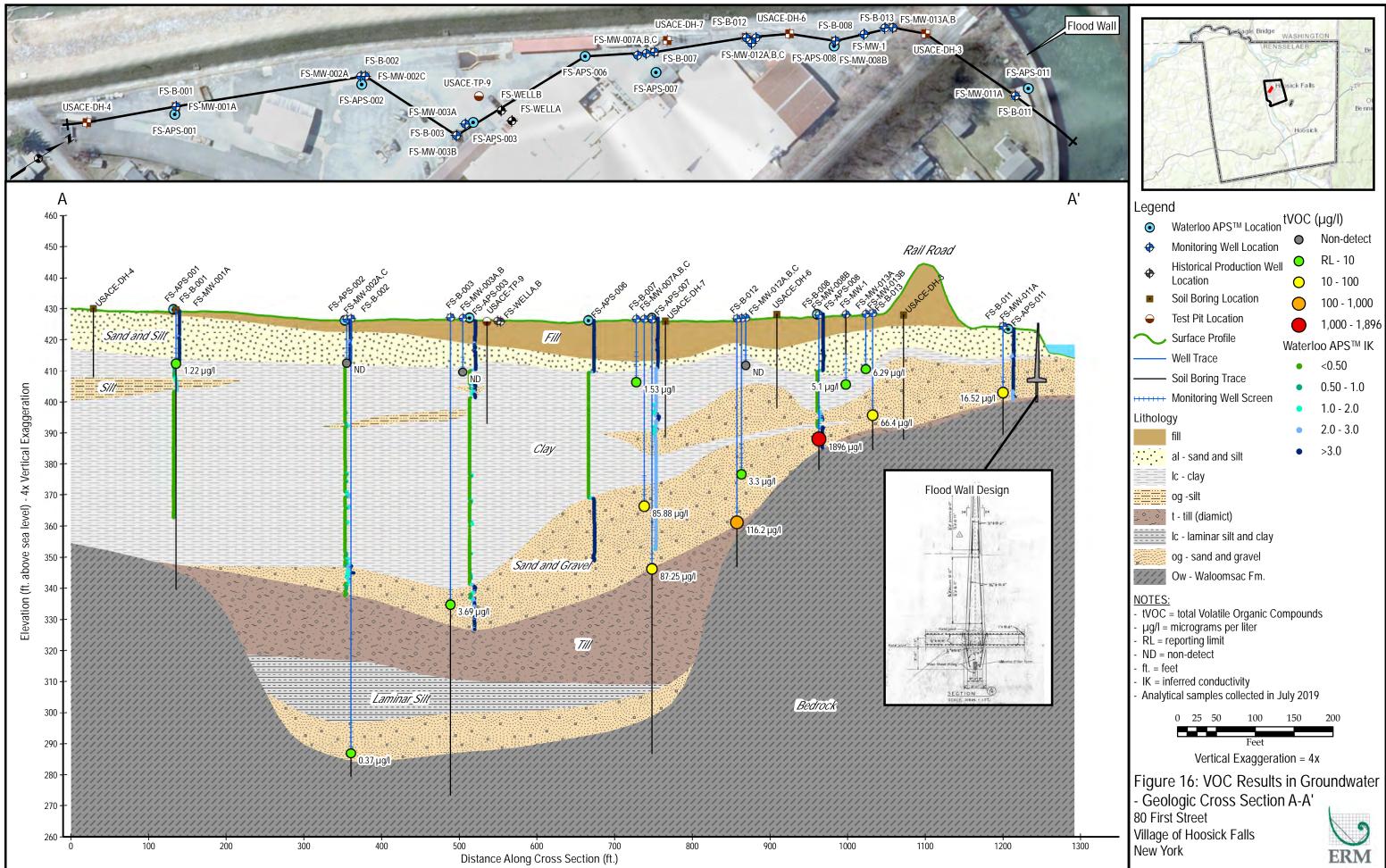
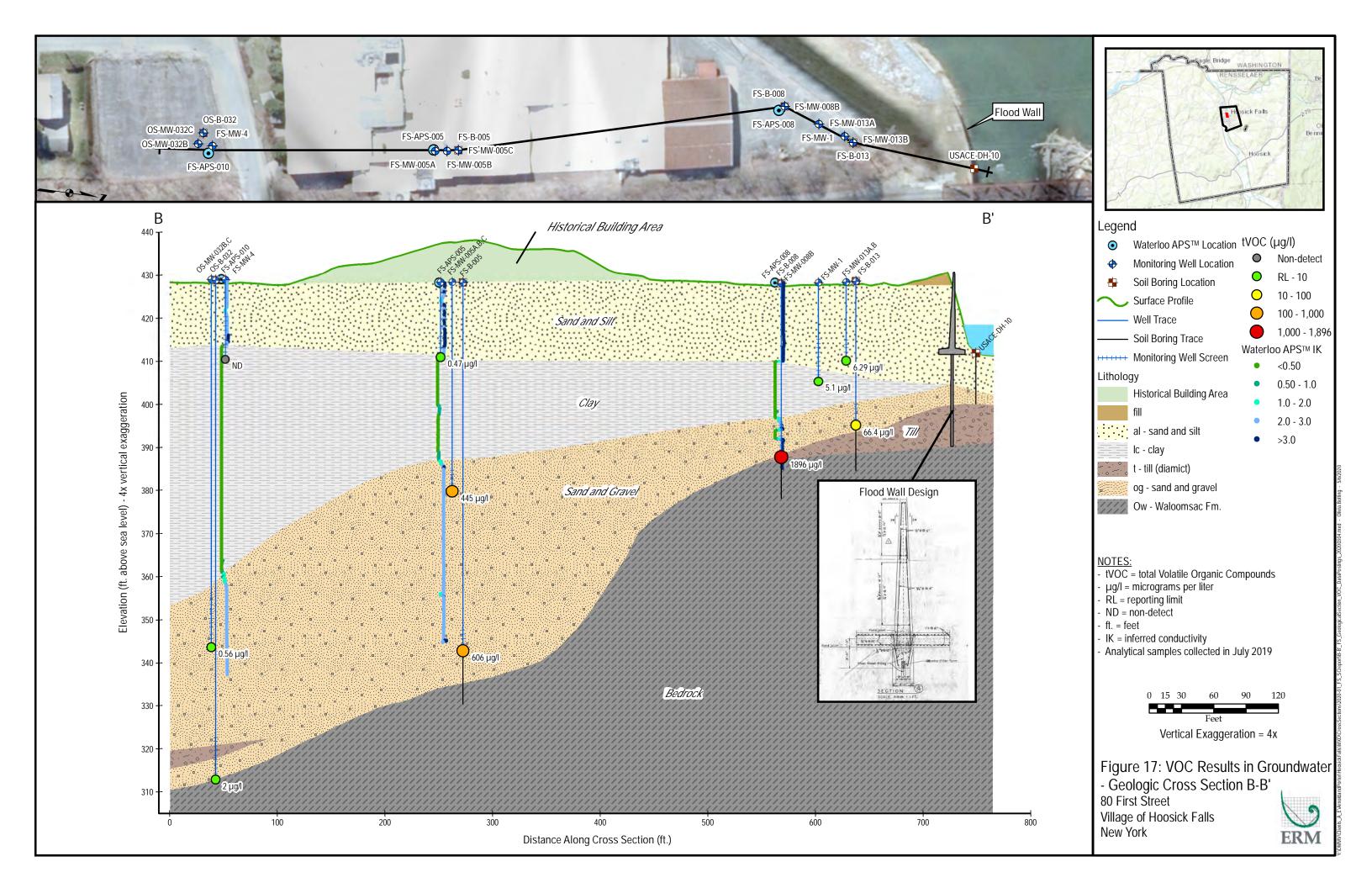
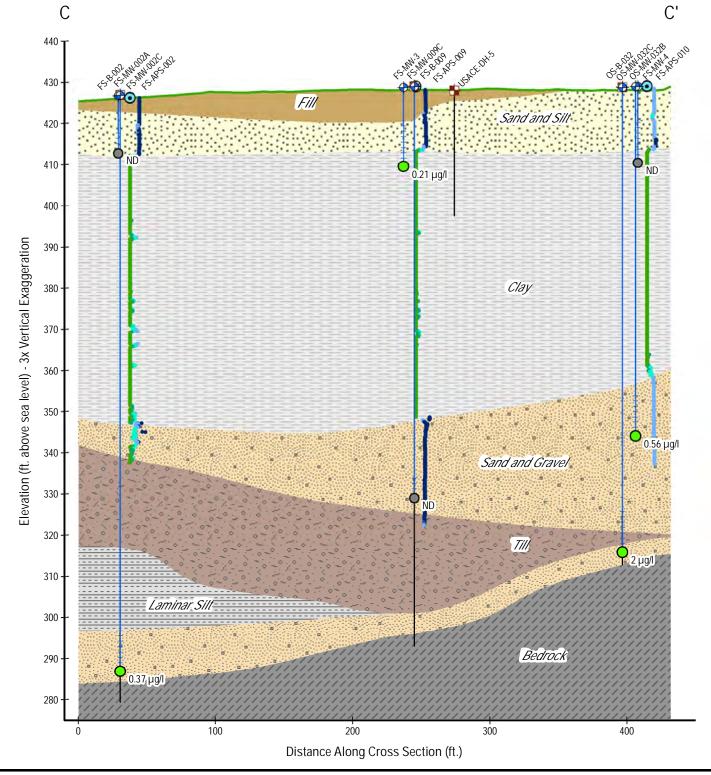


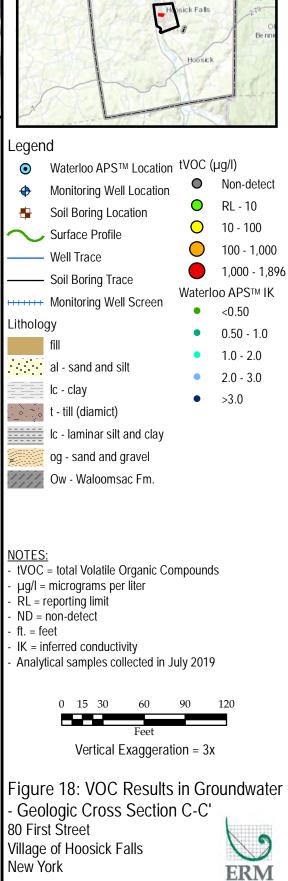
Figure 15: VOC Results in Groundwater 80 First St. Village of Hoosick Falls New York **ERM** 



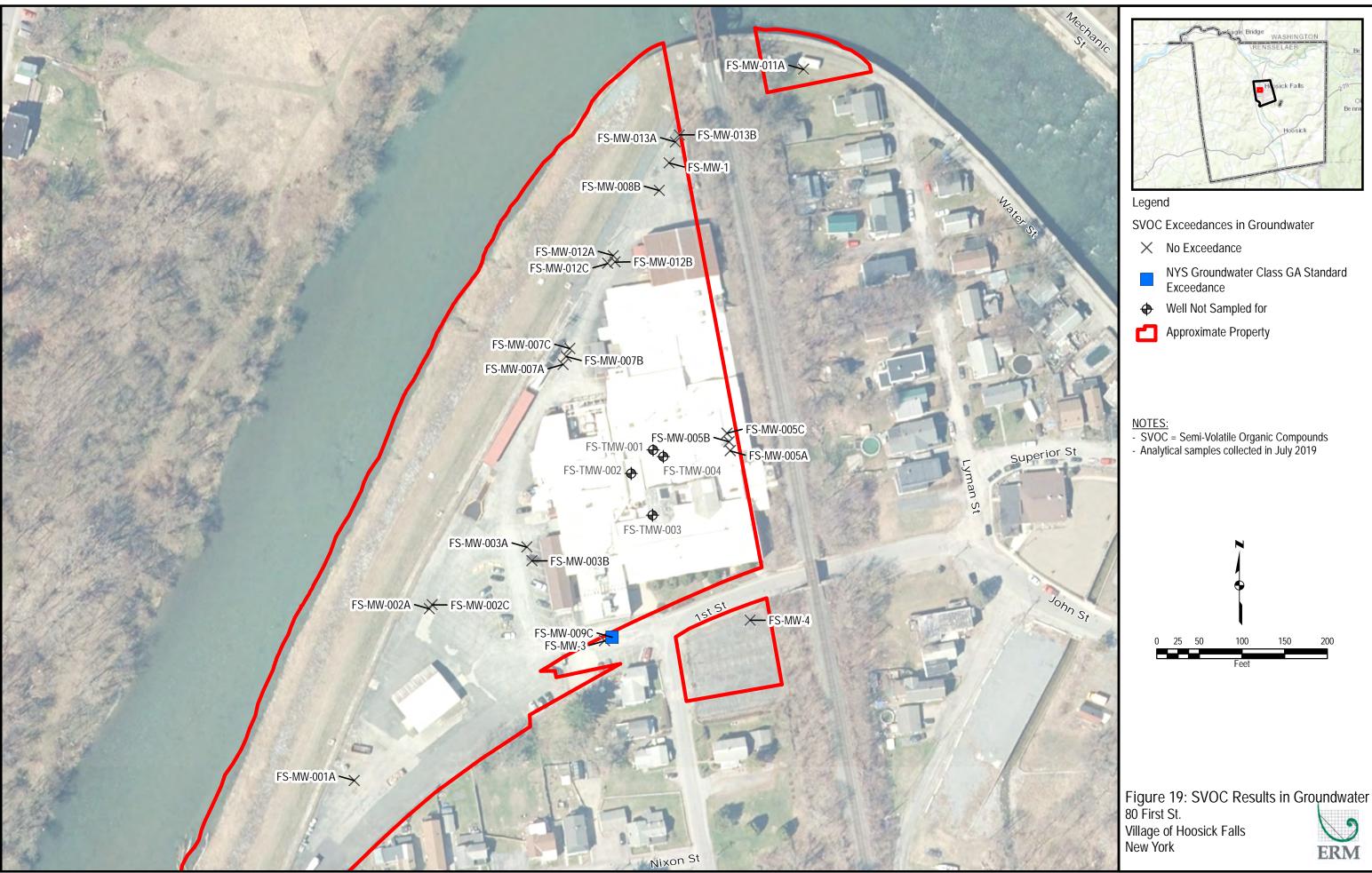




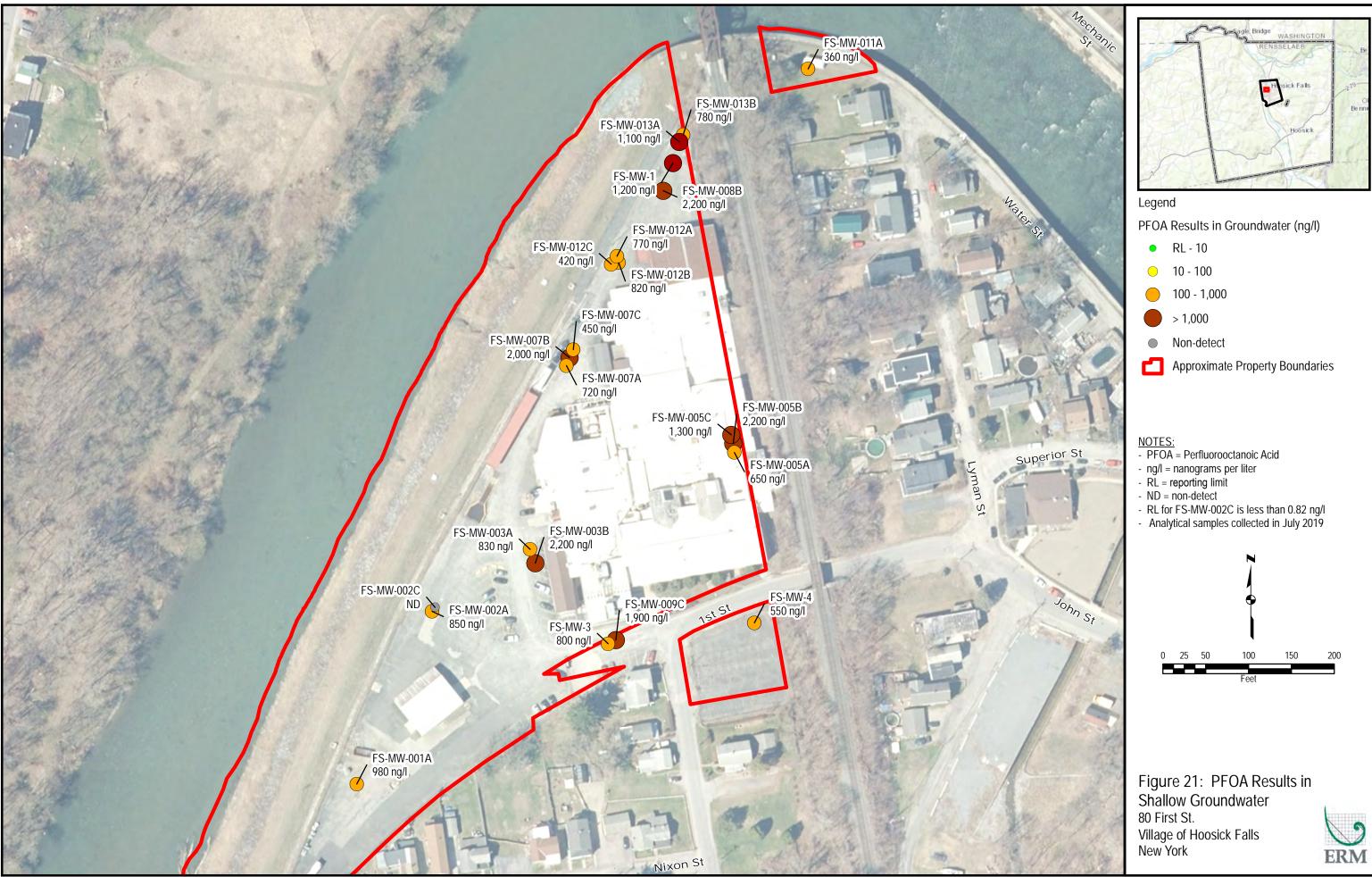




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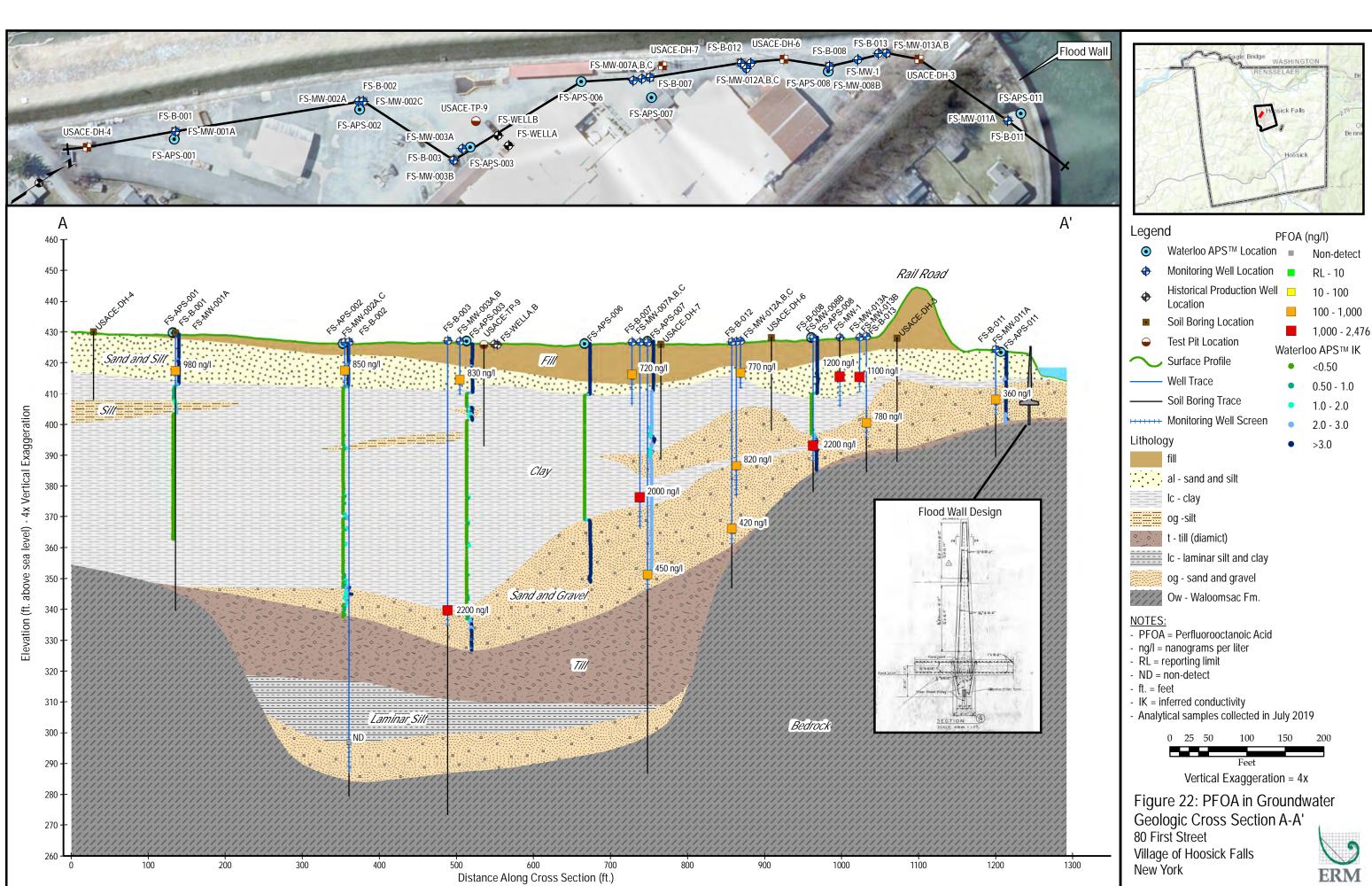




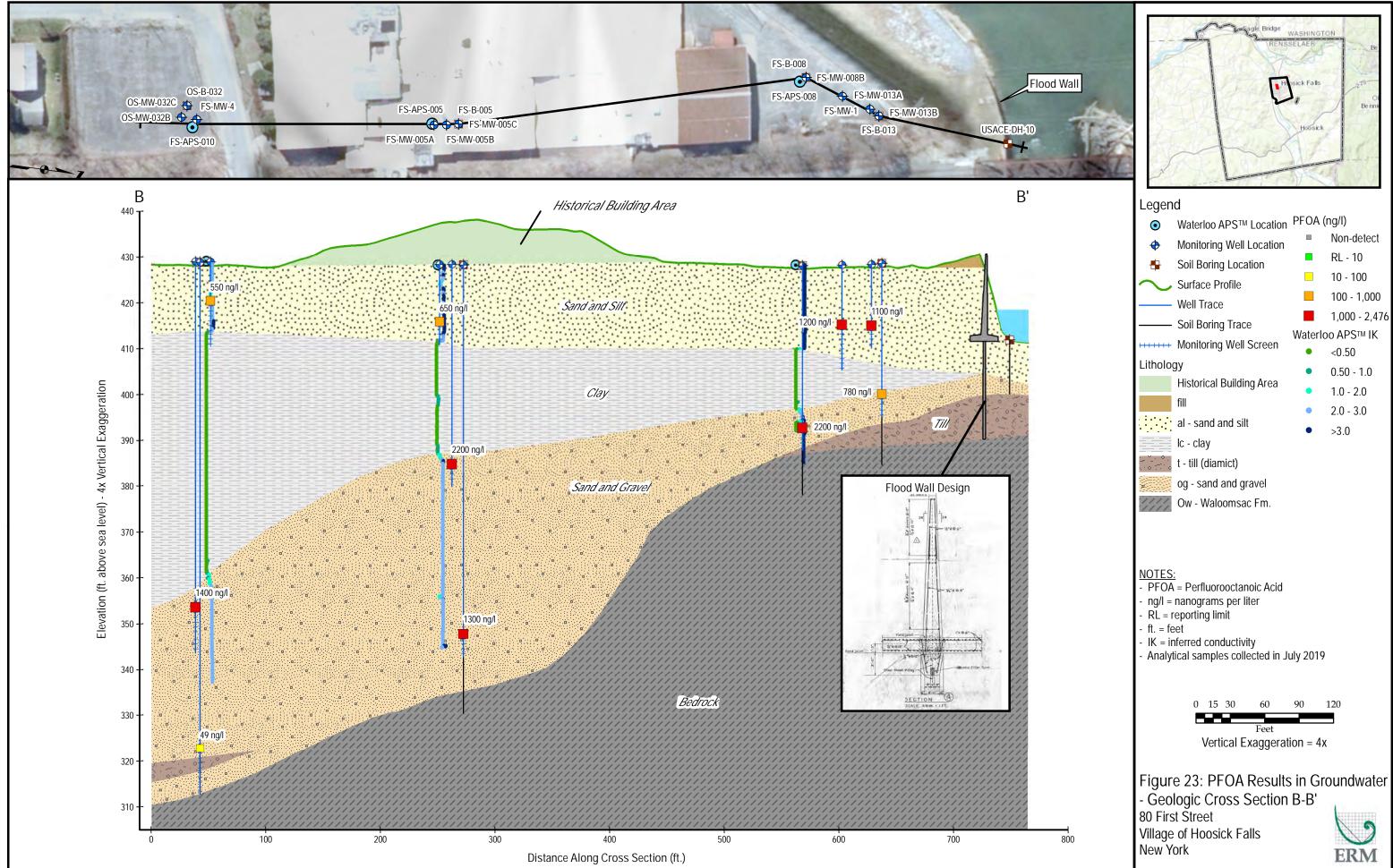


٠	RL - 10
$\bigcirc$	10 - 100
	100 - 1,000
	> 1,000
	Non-detect
۵	Approximate Property Boundaries

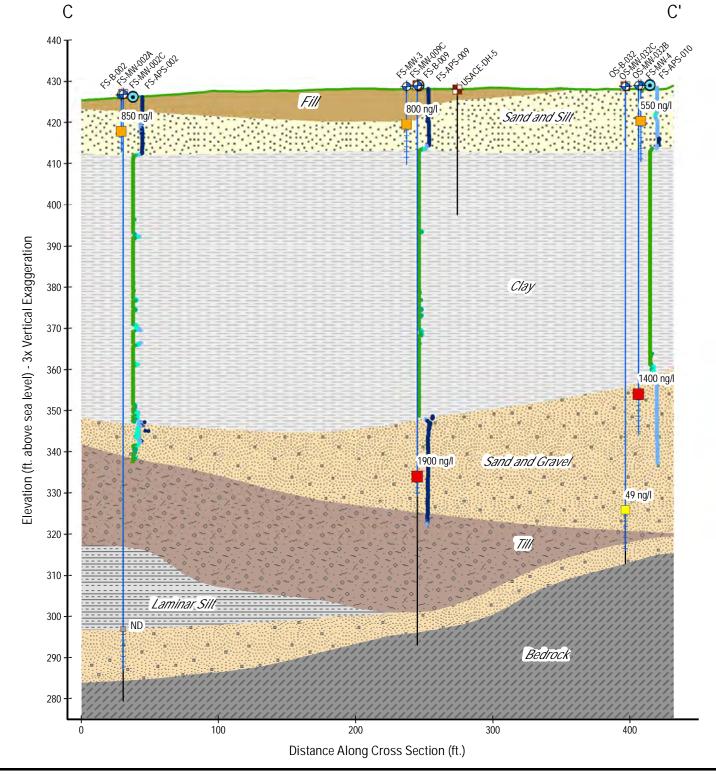


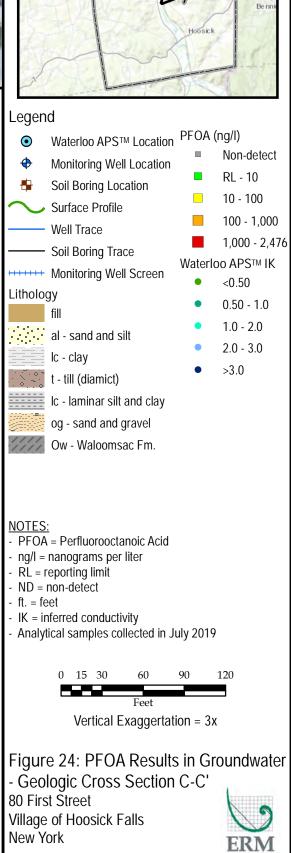








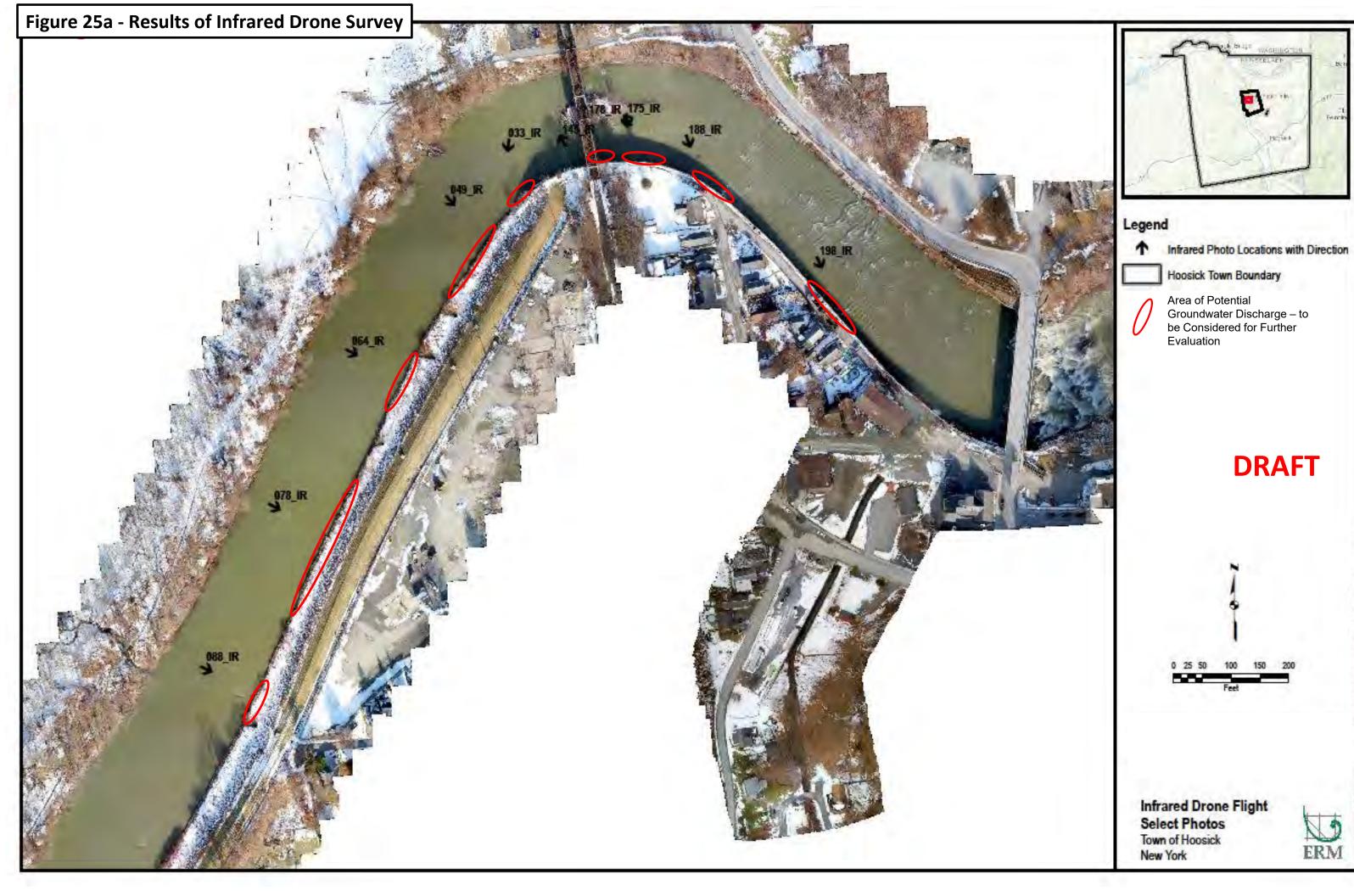




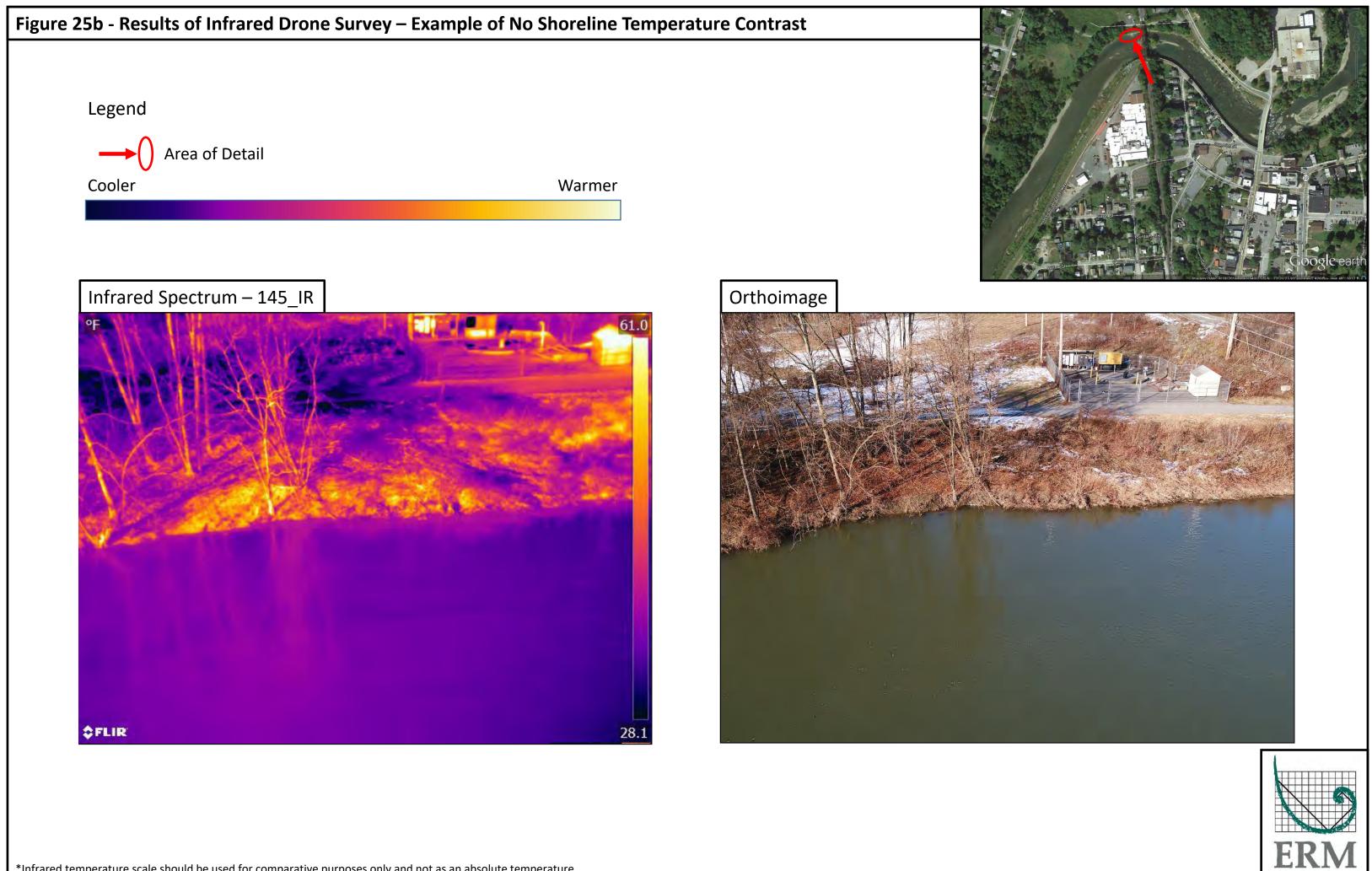
e Bridge WASHINGTO

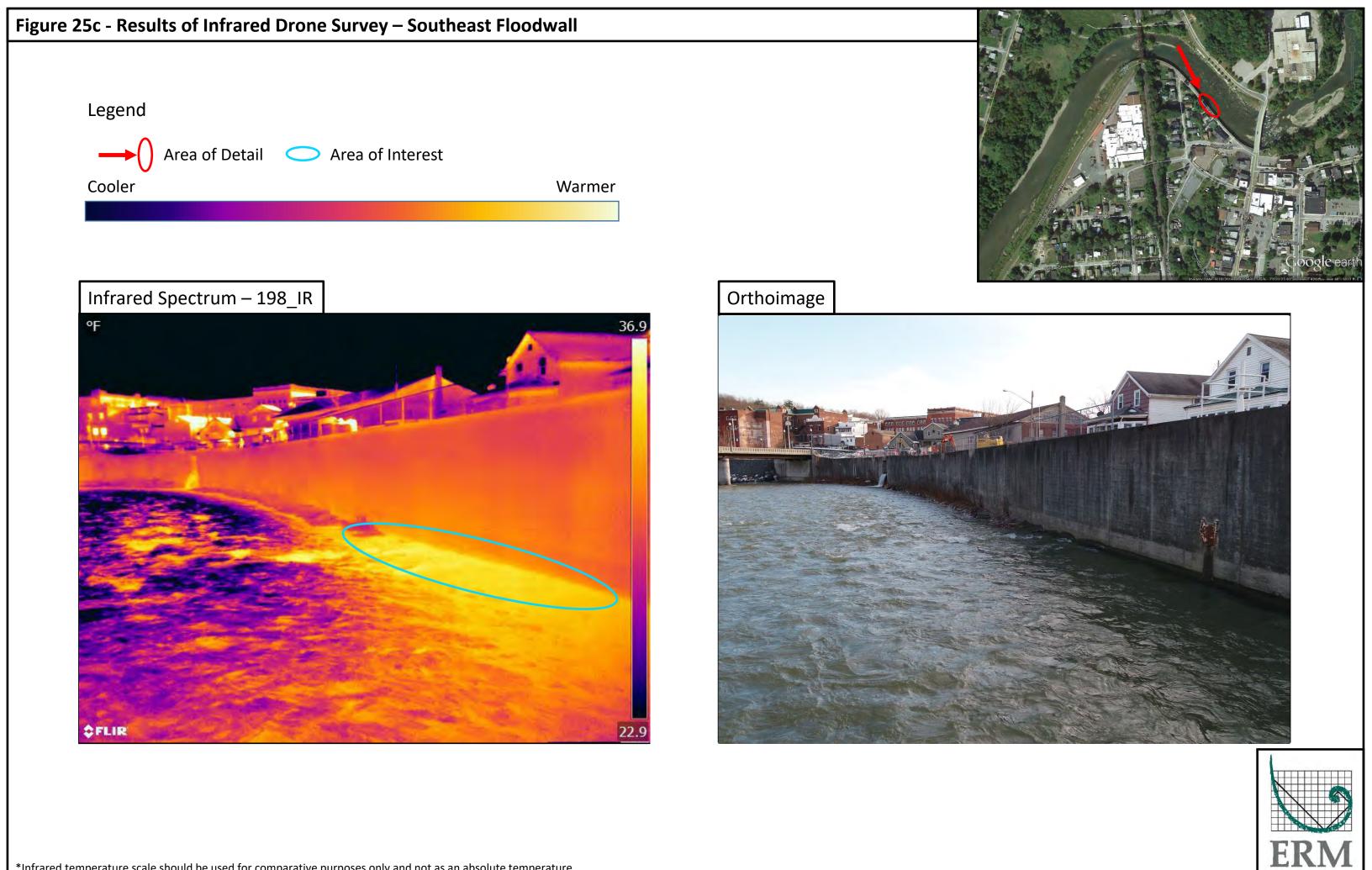
Hosick Falls

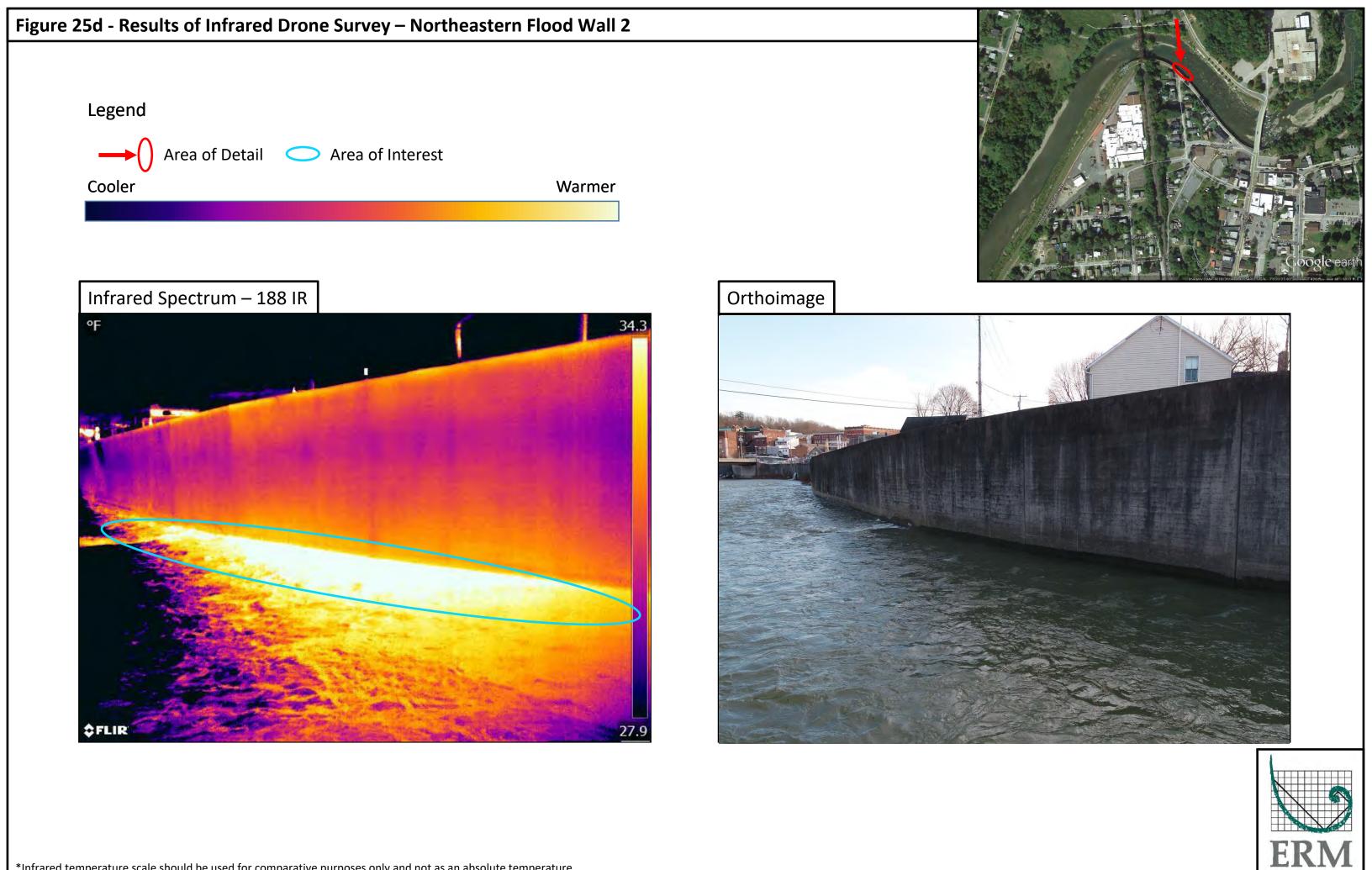
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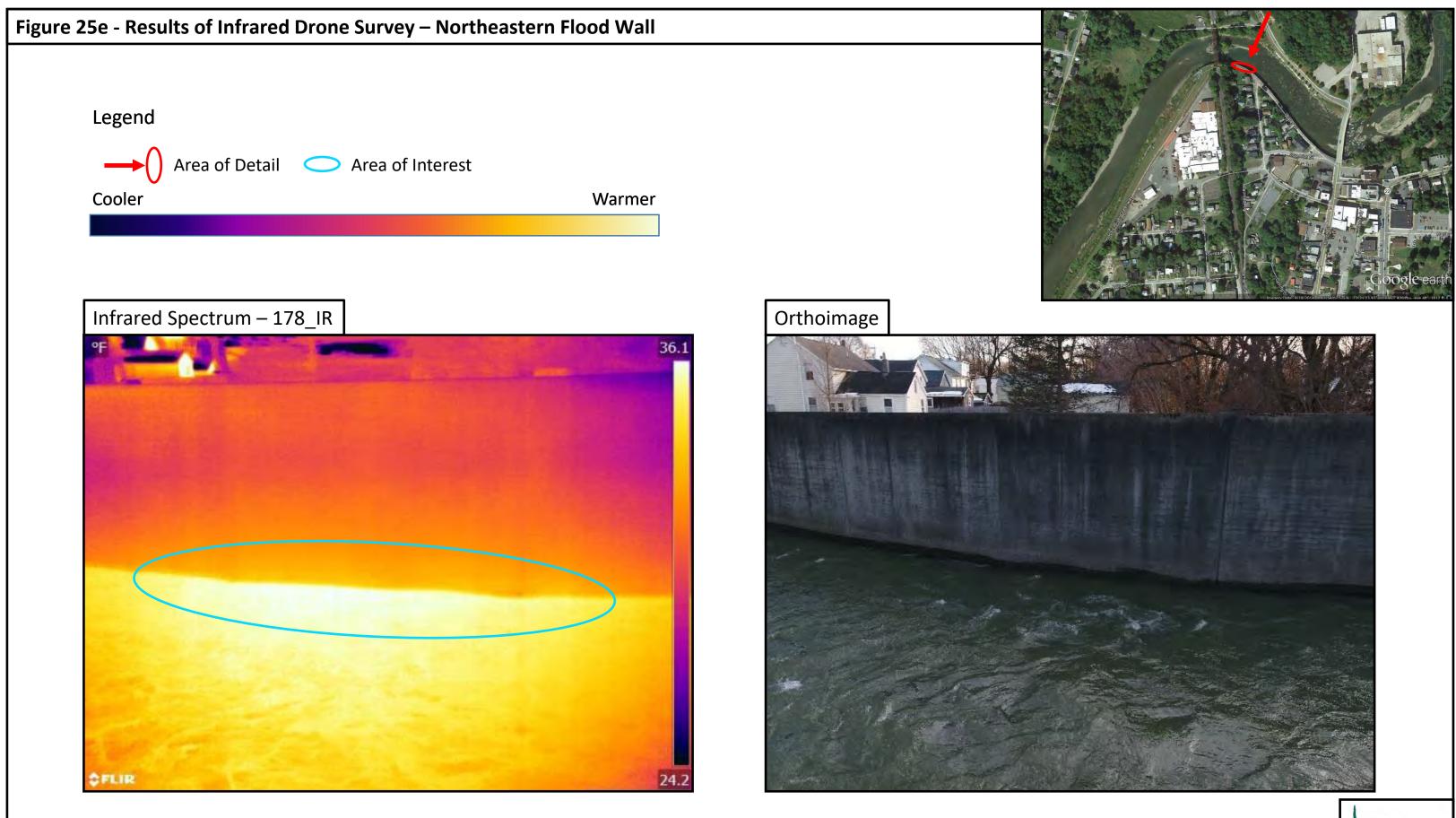






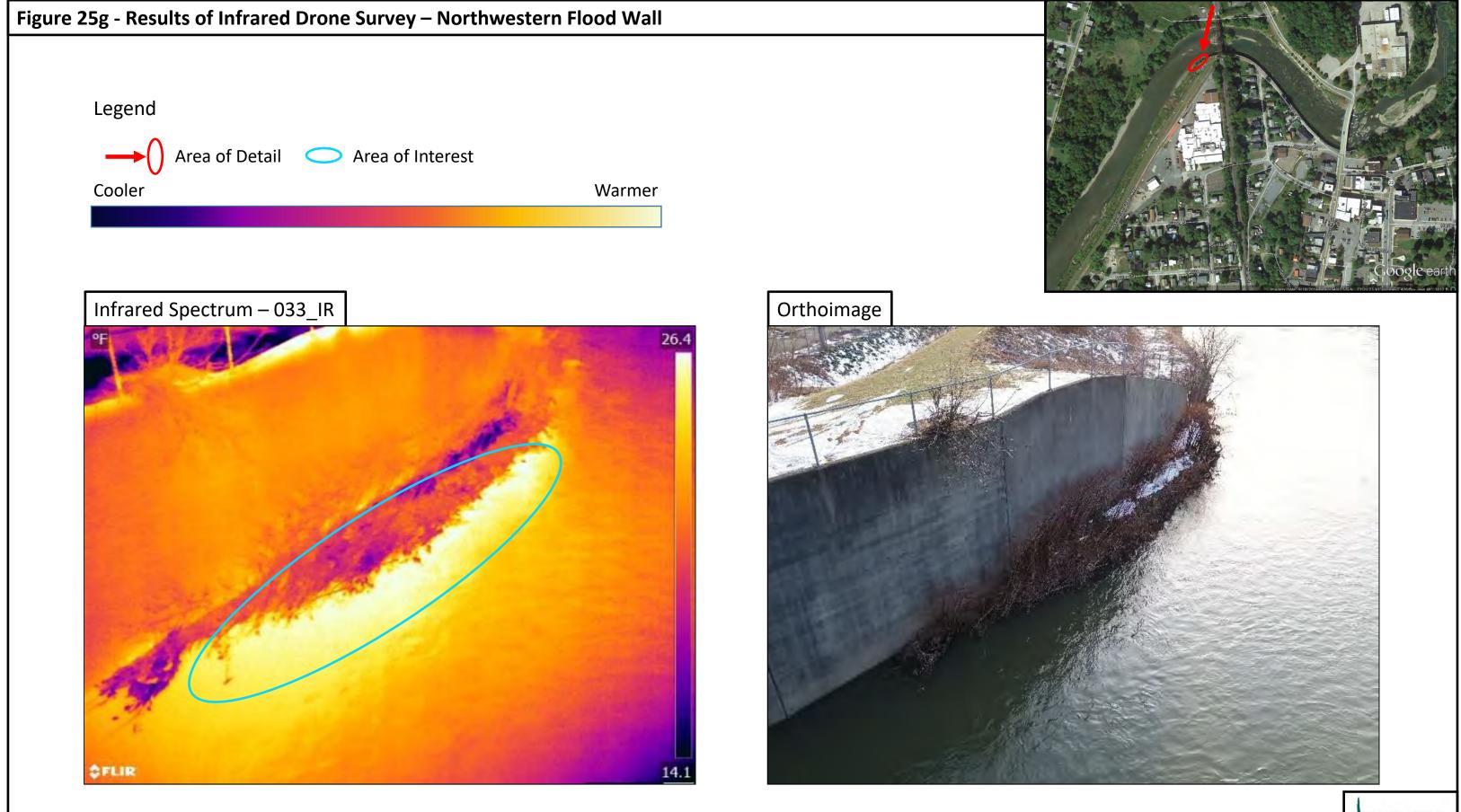


\*Infrared temperature scale should be used for comparative purposes only and not as an absolute temperature



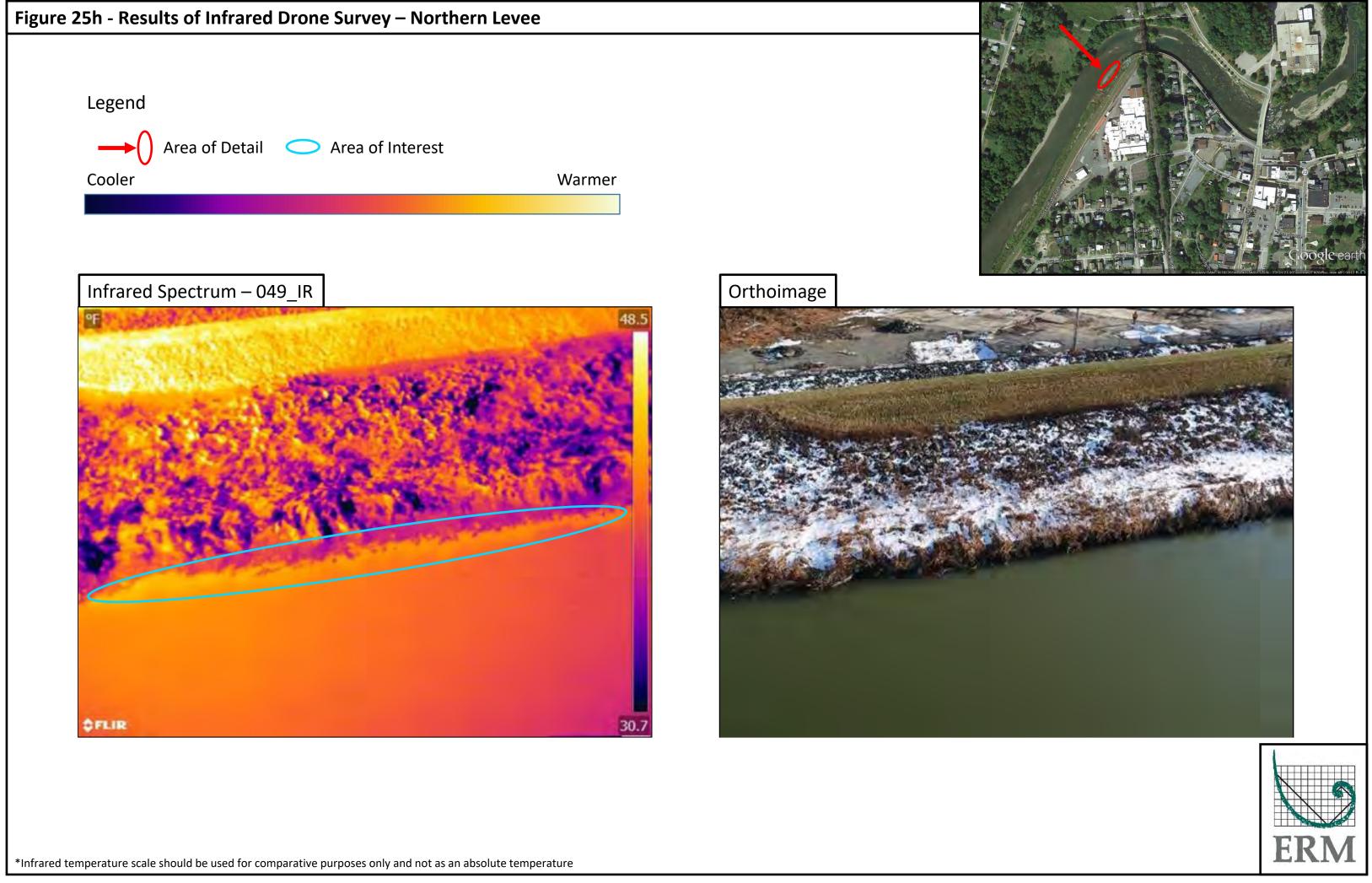


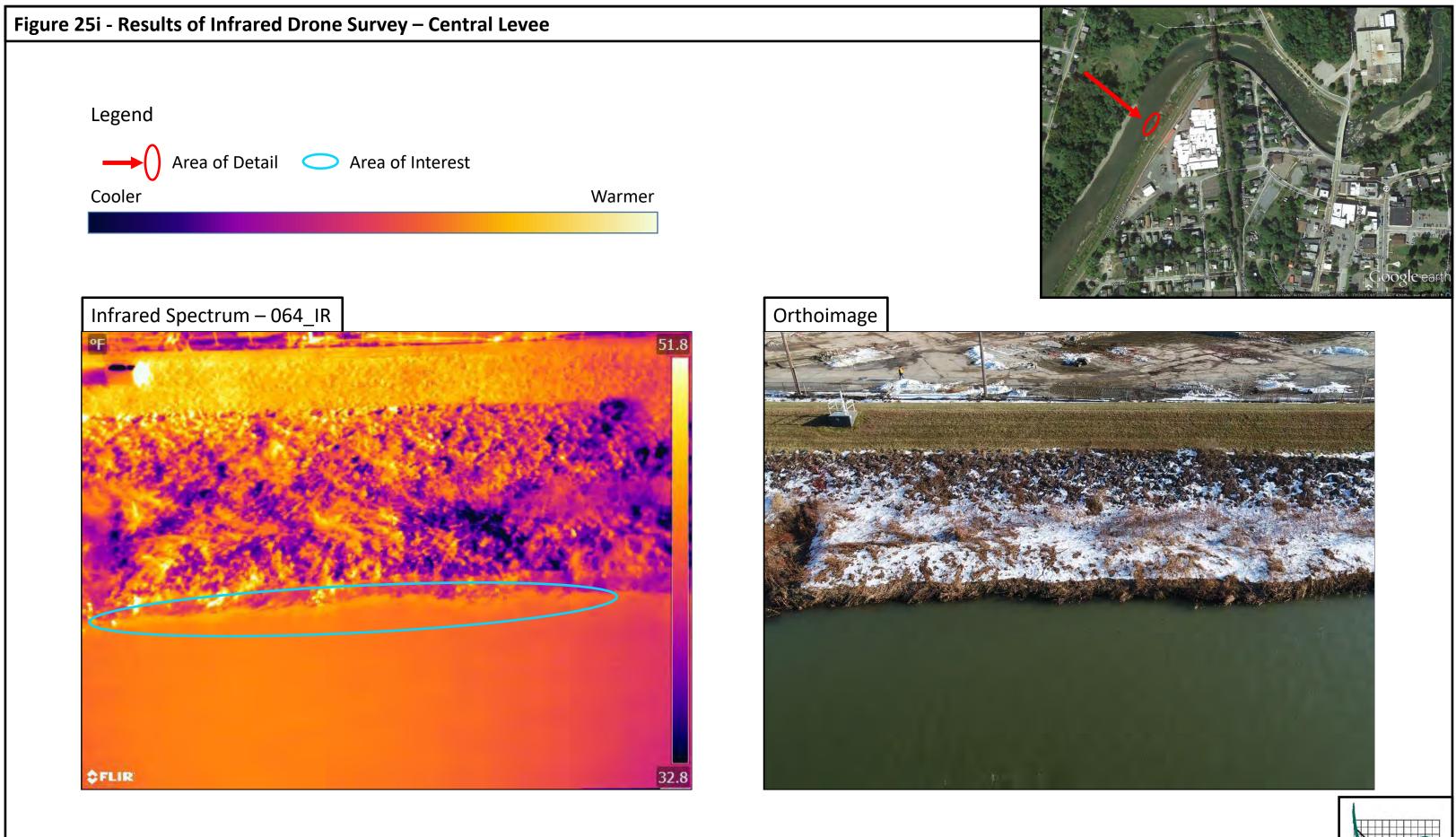




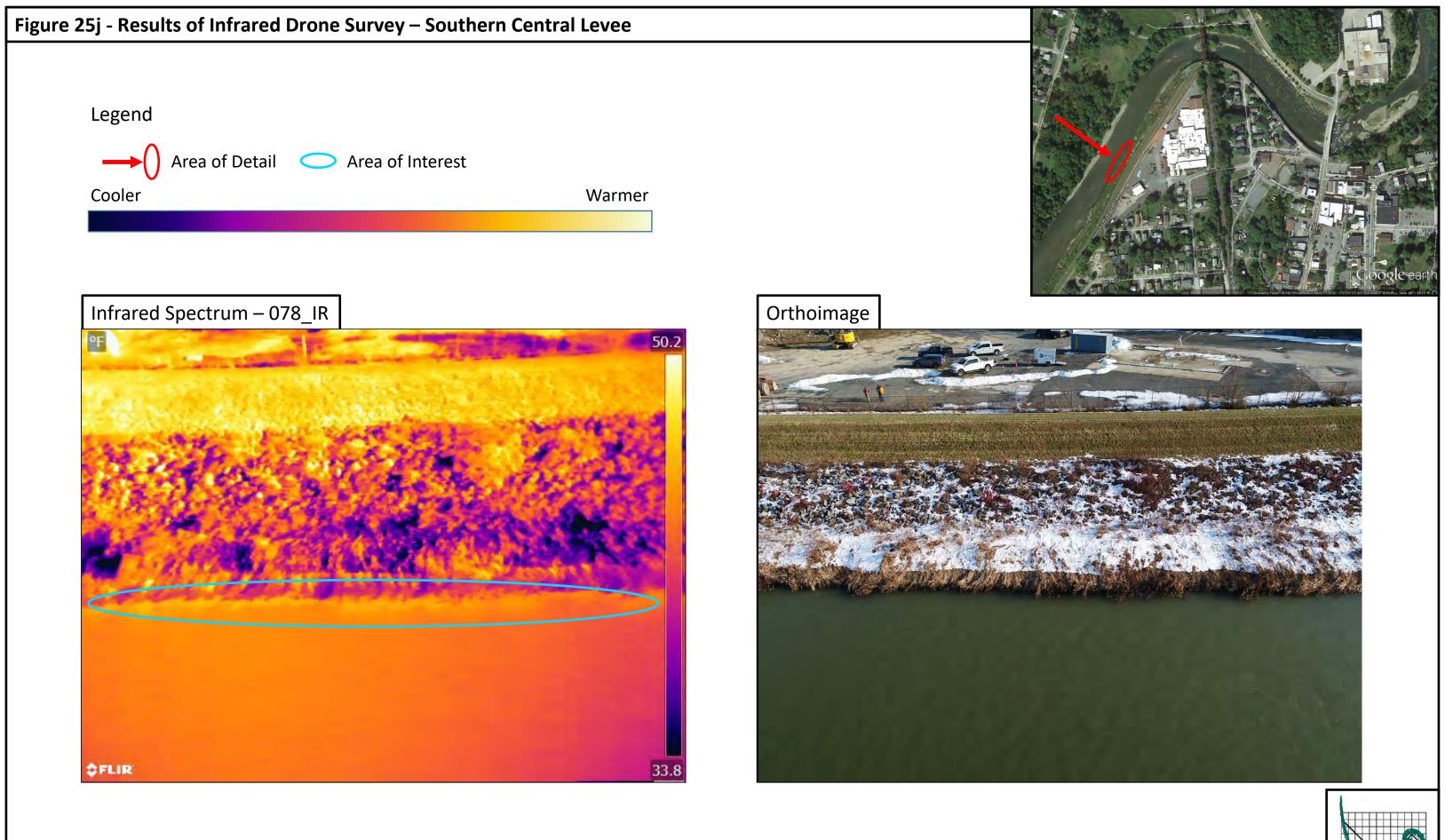
\*Infrared temperature scale should be used for comparative purposes only and not as an absolute temperature





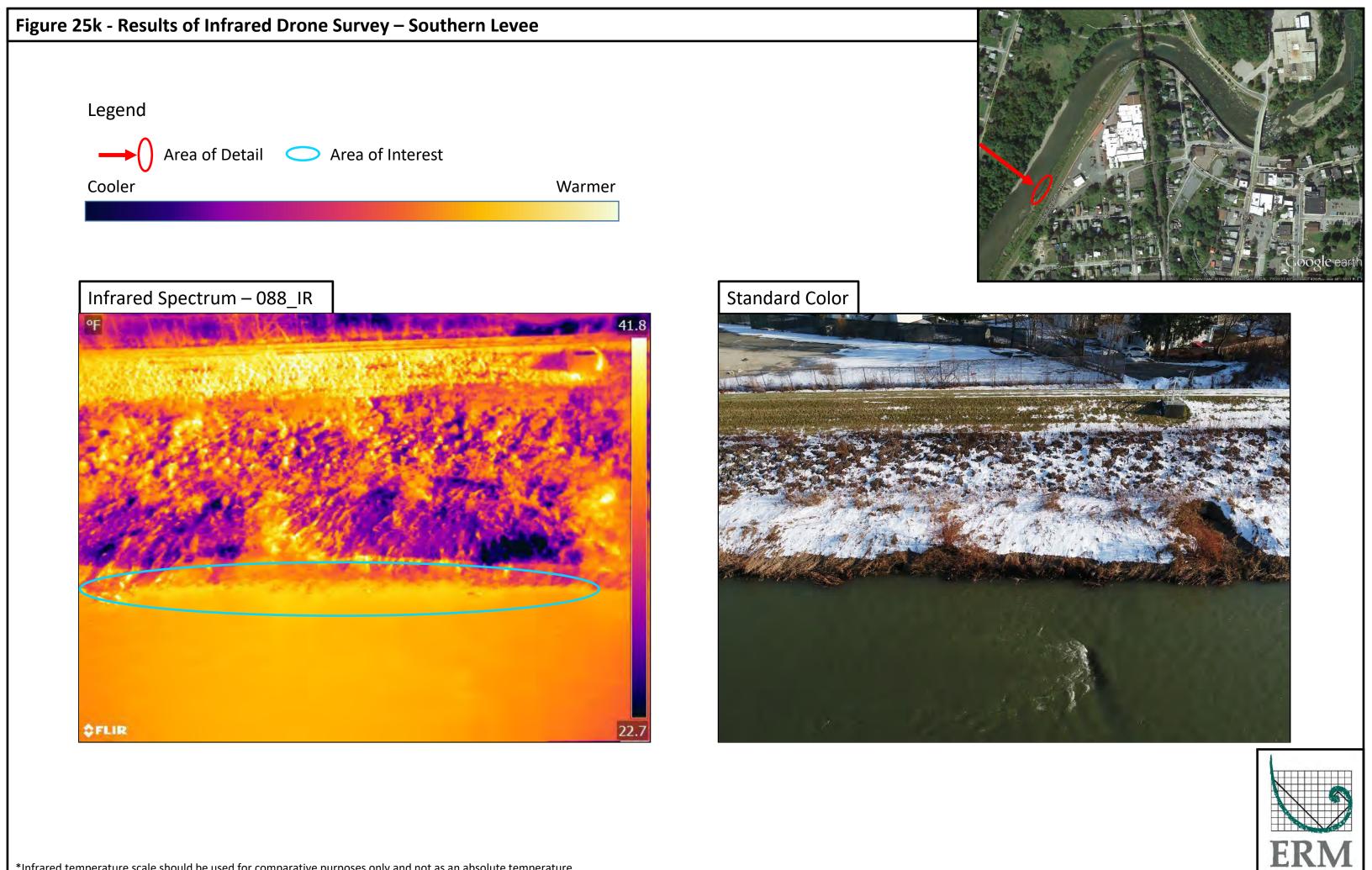






\*Infrared temperature scale should be used for comparative purposes only and not as an absolute temperature





TABLES

### Table 1 Summary of Records Search Former Oak Mitsui- 80 First Street



Site Name & Address	EDR Radius Map™ Report with Geocheck®	EDR Historical Topographic Maps	EDR Historical Sanborn Maps	Historical Aerial Photographs	EDR City Directories	On-Line Historical Images
First Street Site Hoosick Falls, New York	<ul> <li>Oak Mitsui 1* Street, spills closed 1990, 1991, 1993, 1999, 2007.</li> <li>Oak Mitsui Fish Kill 1* St Sewer Hoosic River, spill closed 2002.</li> <li>Oak Mitsui, Two USTs were identified on the Property. Tank number 1 is identified as a 15,000 gallon #2 fuel oil tank closed in-place prior to March 1991. Tank number 2 is identified as a 1,500 gallon #6 fuel oil tank that was closed-in place on 1 December 1987.</li> <li>Listed as LQG of Hazardous waste.</li> <li>14 Nixon St, 0.028 miles SSW of the site, resident reported #2 fuel oil contamination, closed 1989.</li> <li>Nixon St, 0.046 miles S of the site, spill closed 1986.</li> <li>3 Lyman Street, 0.064 miles ESE of the site, listed as a significant threat to the public health or environment, no spill recorded.</li> <li>Willow St, 0.077 miles S of the site, #2 fuel oil truck spill, spill closed in 1992.</li> <li>John St Fluorglas, 0.093 miles ESE of the site.</li> <li>Violation determined 1983, compliance achieved 1985.</li> <li>43 Second (2<sup>nd</sup>) St, 0.099 miles S of the site, residential #2 fuel oil leak in 2000, no spill close date.</li> <li>25 Church St, 0.110 miles ESE of the site, spill closed 2004, 2010, 2011, 2018, 2019. One spill closed 2011.</li> <li>15 Spring St Creek, 0.110 miles SE of the site, spill closed 2005.</li> <li>9 Railroad Ave, 0.118 miles SSE of the site, spill date 2007, spill closed 2007.</li> <li>4<sup>th</sup> St @ Willow St, 0.119 miles SE of the site, spill closed 2016.</li> <li>1 Liberty St, 0.212 miles S of the site, residential oil spill closed 1998.</li> <li>69 Elm St, 0.122 miles S of the site, residential oil spill closed 1998.</li> <li>90 Church St, 0.218 miles SE of the site, spill closed 2016.</li> <li>1 Liberty St, 0.218 miles SE of the site, spill closed 2016.</li> <li>1 Liberty St, 0.218 miles SE of the site, spill closed 2016.</li> </ul>	ERM reviewed historical topographic maps dated 1897, 1900, 1943, 1944, 1946, 1980, 1995, and 2013.	ERM reviewed historical Sanborn maps dated 1884, 1891, 1897, 1904, 1910, and 1945.	ERM reviewed historical aerial photographs dated 1942, 1951, 1960, 1978, 1986, 1994, 2006, 2009, 2013, and 2017.	ERM reviewed city directories for the subject property dated 1989,1992,1995,2000, 2005, 2010 and 2014.	The historical images available and reviewed on Google Earth cover the years 1994, 2006, 2007, 2008, 2009, 2011, and 2014. The property remains unchanged from 1994 through 2014.

### Oak Mitsui 80 First Street, Hoosick Falls, NY Site Characterization Report

### Table 2 Soil Sampling Rationale

Sample ID	Matrix	Sample Depth(s)	Sample Location	Analytical Parameters	Rationale
SOIL-SC001	Soil	Interval which indicates the highest potential for the presence of contamination	East Side	TAL Metals, TCL VOCs	To investigate the potential for contamination at the former Oak Mitsui site operations including chlorinated solvents.
SOIL-SC002	Soil	Interval which indicates the highest potential for the presence of contamination	East Side	TAL Metals, TCL VOCs, TCL SVOCs, Pesticides, PCBs, total Cyanide, PFAS, 1,4-dioxane	To investigate the potential for contamination at the former Oak Mitsui site operations including chlorinated solvents.
SOIL-SC003	Soil	Interval which indicates the highest potential for the presence of contamination	East Side	TAL Metals, TCL VOCs	To investigate the potential for contamination at the former Oak Mitsui site operations including chlorinated solvents.
SOIL-SC004	Soil	Interval which indicates the highest potential for the presence of contamination	East Side	TAL Metals, TCL VOCs, TCL SVOCs, Pesticides, PCBs, total Cyanide, PFAS, 1,4-dioxane	To investigate the potential for contamination at the former Oak Mitsui site operations.
SOIL-SC005	Soil	Interval which indicates the highest potential for the presence of contamination	East Side	TAL Metals	To investigate the potential for contamination at the former Oak Mitsui site operations.
SOIL-SC006	Soil	Interval which indicates the highest potential for the presence of contamination	East Side	TAL Metals	To investigate the potential for contamination at the former Oak Mitsui site operations.
SOIL-SC007	Soil	Interval which indicates the highest potential for the presence of contamination	East Side	TAL Metals, TCL VOCs, TCL SVOCs, Pesticides, PCBs, total Cyanide, PFAS, 1,4-dioxane	To investigate the potential for contamination at the former Oak Mitsui site operations.

Sample ID	Matrix	Sample Depth(s)	Sample Location	Analytical Parameters	Rationale
*SOIL-SC008	Soil	Interval which indicates the highest potential for the presence of contamination	East Side	TAL Metals	To investigate the potential for contamination at the former Oak Mitsui site operations.
SOIL-SC009	Soil	Interval which indicates the highest potential for the presence of contamination	East Side	TAL Metals, TCL VOCs, TCL SVOCs, Pesticides, PCBs, total Cyanide, PFAS, 1,4-dioxane	To investigate the potential for contamination at the former Oak Mitsui site operations.
SOIL-SC010	Soil	Interval which indicates the highest potential for the presence of contamination	East Side	TAL Metals	To investigate the potential for contamination at the former Oak Mitsui site operations.
*SOIL-SC011	Soil	Interval which indicates the highest potential for the presence of contamination	East Side	TAL Metals	To investigate the potential for contamination at the former Oak Mitsui site operations.
*SOIL-SC012	Soil	Interval which indicates the highest potential for the presence of contamination	East Side	TAL Metals	To investigate the potential for contamination at the former Oak Mitsui site operations.
*SOIL-SC013	Soil	Interval which indicates the highest potential for the presence of contamination	East Side	TAL Metals	To investigate the potential for contamination at the former Oak Mitsui site operations.
SOIL-SC014	Soil	Interval which indicates the highest potential for the presence of contamination	East Side	TAL Metals	To investigate the potential for contamination at the former Oak Mitsui site operations.
*SOIL-SC015	Soil	Interval which indicates the highest potential for the presence of contamination	East Side	TAL Metals	To investigate the potential for contamination at the former Oak Mitsui site operations.

Sample ID	Matrix	Sample Depth(s)	Sample Location	Analytical Parameters	Rationale
SOIL-SC016	Soil	Interval which indicates the highest potential for the presence of contamination	East Side	TAL Metals	To investigate the potential for contamination at the former Oak Mitsui site operations.
*SOIL-SC017	Soil	Interval which indicates the highest potential for the presence of contamination	East Side	TAL Metals	To investigate the potential for contamination at the former Oak Mitsui site operations.
*SOIL-SC018	Soil	Interval which indicates the highest potential for the presence of contamination	East Side	TAL Metals, TCL VOCs, TCL SVOCs, Pesticides, PCBs, total Cyanide, PFAS, 1,4-dioxane	To investigate the potential for contamination at the former Oak Mitsui site operations.
*SOIL-SC019	Soil	Interval which indicates the highest potential for the presence of contamination	East Side	TAL Metals	To investigate the potential for contamination at the former Oak Mitsui site operations.
SOIL-SC020	Soil	Interval which indicates the highest potential for the presence of contamination	West Side	TCL VOCs, TCL SVOCs, Pesticides, PCBs, total Cyanide, PFAS, 1,4-dioxane, TAL Metals	To investigate the potential for contamination at the former Hoosick Falls Gas Light Company's Coal Gasification Plant operations.
SOIL-SC021	Soil	Interval which indicates the highest potential for the presence of contamination	West Side	TCL VOCs, TCL SVOCs, Pesticides, PCBs, total Cyanide	To investigate the potential for contamination at the former Hoosick Falls Gas Light Company's Coal Gasification Plant operations.
SOIL-SC022	Soil	Interval which indicates the highest potential for the presence of contamination	West Side	TCL VOCs, TCL SVOCs, Pesticides, PCBs, total Cyanide	To investigate the potential for contamination at the former Hoosick Falls Gas Light Company's Coal Gasification Plant operations.
SOIL-SC023	Soil	Interval which indicates the highest potential for the presence of contamination	West Side	TCL VOCs, TCL SVOCs, Pesticides, PCBs, total Cyanide	To investigate the potential for contamination at the former Hoosick Falls Gas Light Company's Coal Gasification Plant operations.

Sample ID	Matrix	Sample Depth(s)	Sample Location	Analytical Parameters	Rationale
SOIL-SC024	Soil	Interval which indicates the highest potential for the presence of contamination	West Side	TCL VOCs, TCL SVOCs, Pesticides, PCBs, total Cyanide	To investigate the potential for contamination at the former Hoosick Falls Gas Light Company's Coal Gasification Plant operations.
SOIL-SC025	Soil	Interval which indicates the highest potential for the presence of contamination	West Side	TCL VOCs, TCL SVOCs, Pesticides, PCBs, total Cyanide, PFAS, 1,4-dioxane, TAL Metals	To investigate the potential for contamination at the former Hoosick Falls Gas Light Company's Coal Gasification Plant operations.
SOIL-SC026	Soil	Interval which indicates the highest potential for the presence of contamination	West Side	TCL VOCs, TCL SVOCs, Pesticides, PCBs, total Cyanide	To investigate the potential for contamination at the former Hoosick Falls Gas Light Company's Coal Gasification Plant operations.
SOIL-SC027	Soil	Interval which indicates the highest potential for the presence of contamination	West Side	TCL VOCs, TCL SVOCs, Pesticides, PCBs, total Cyanide	To investigate the potential for contamination at the former Hoosick Falls Gas Light Company's Coal Gasification Plant operations.
SOIL-SC028	Soil	Interval which indicates the highest potential for the presence of contamination	West Side	TCL VOCs, TCL SVOCs, Pesticides, PCBs, total Cyanide, PFAS, 1,4-dioxane, TAL Metals	To investigate the potential for contamination at the former Hoosick Falls Gas Light Company's Coal Gasification Plant operations.
SOIL-SC029	Soil	Interval which indicates the highest potential for the presence of contamination	East Side	TAL Metals	To investigate the potential for contamination at the former Oak Mitsui site operations.
SOIL-SC030	Soil	Interval which indicates the highest potential for the presence of contamination	East Side	TAL Metals, TCL VOCs, TCL SVOCs, Pesticides, PCBs, total Cyanide, PFAS, 1,4-dioxane	To investigate the potential for contamination at the former Oak Mitsui site operations.
SOIL-DUP- SC001	Soil	TBD	East Side	TAL Metals, TCL VOCs, TCL SVOCs, Pesticides, PCBs, total Cyanide, PFAS, 1,4-dioxane	Per QAQC procedures, two blind duplicate samples will be collected with selected soil samples to determine the precision of laboratory analysis.

Sample ID	Matrix	Sample Depth(s)	Sample Location	Analytical Parameters	Rationale
SOIL-DUP- SC002	Soil	TBD	West Side	TAL Metals, TCL VOCs, TCL SVOCs, Pesticides, PCBs, total Cyanide, PFAS, 1,4-dioxane	Per QAQC procedures, one matrix spike (MS) sample is required for every 20 samples (including duplicate samples and field or equipment blank samples).
SOIL-MS - SC001 SOIL-MSD- SC001	Soil	TBD	East Side	TAL Metals, TCL VOCs, TCL SVOCs, Pesticides, PCBs, total Cyanide, PFAS, 1,4-dioxane	Per QAQC procedures, one matrix spike (MS) sample is required for every 20 samples (including duplicate samples and field or equipment blank samples).
SOIL-MS - SC002 SOIL-MSD- SC002	Soil	TBD	West Side	TAL Metals, TCL VOCs, TCL SVOCs, Pesticides, PCBs, total Cyanide, PFAS, 1,4-dioxane	Per QAQC procedures, one matrix spike duplicate (MSD) sample is required for every 20 samples (including duplicate samples and field or equipment blank samples).

\* Soil boring not completed; site characterization samples in the area of the proposed boring were collected during completion of the IRM soil excavation activities.

### Table 3 Summary of Site Groundwater Characterization Tasks Former Oak Materials – First Street



Site Characterization Tasks	Methods/Rationale	Investigation Areas
Permeability Profiling and Initial Groundwater Sampling	<ul> <li>Waterloo APS Profiling to log relative permeability of overburden materials</li> <li>Collect initial groundwater samples</li> <li>Develop approach/construction for fixed monitoring well installations</li> </ul>	11 On site APS locations
Surface Geophysics Survey	Identify locations of abandoned underground storage tanks	North end of property
Borehole Geophysics	• Locate and determine construction of former on-site production wells A, B, D, E & F and yielding formation(s)	<ul> <li>Locate activities for former on-site production wells A, B, D, E &amp; F</li> <li>Access and run borehole geophysics in Former on-site production wells E &amp; F</li> </ul>
Fixed monitoring well installations and groundwater sampling	<ul> <li>Sonic drilling methods for construction of monitoring wells</li> <li>Low-flow purging/sampling using peristaltic or inertial pumping systems</li> <li>Characterization of groundwater quality</li> </ul>	<ul> <li>Screen interval (A) straddling or just below water table;</li> <li>Screen interval (B) below the clay unit and</li> <li>Screen intervals (C) near the bottom of overburden</li> <li>23 On site wells</li> <li>01 Off site wells</li> </ul>

### Table 4 Summary of Site Characterization Samples Former Oak Mitsui - 80 First Street



	_				1			_		-	
Sample Name	PFAS	VOCs	Metals	CN	SVOCs	TOC	PCBs	Pest- icides	pН	Other *	Notes
								iciues			
FS-APS-001 (15)(10302018)	Х	Х	Х	Х	Х	Х	Х	Х	Х		
FS-APS-002 (13.9)(10302018)	х	х	х	х	х	Х	х	Х	х		
TB (10302018)		х									
EB-APS-48105 (10302018)	х										
FS-APS-006 (14.5)(10312018)	х	х	х	х	х	х	х	Х	х		
FS-APS-006 (14.5)(10312018)MS	x	X	x	X	X	X	X	X	x		
FS-APS-006 (14.5)(10312018)MSD	X	х	x	X	X	X	X	X	x		
EB-APS-48108 (10302018)	X	X	x	x	X	X	X	X	x		
FS-APS-003 (14)(10312018)		x	x	x	x	x	x	x	x		
FS-APS-DUP1 (10312018)(FS-APS-003(14))	х	x	x	x	X	x	x	x	x		
FS-APS-006 (58.3)(11012018)	~	~	X	Л	X	Л	~	X	~		
FS-APS-003 (86.15)(11012018)	х	х	X	х	X	х	х	X	х		
TB-APS (11012018)	~	x	~	Л	~	Л	~	А	~		
FS-APS-006 (57.9) (10312018)		x	х	х	х	х	х	х	х		
EB-APS (10312018)	х	~	~	л	~	~	^	~	^		
. ,	X	v	v	х	v	v	х	х	х		
FS-APS-007 (32.7)(110220189)	x	X	X X	X	X X	X	x	X	x		
FS-APS-008 (36.9)(11022018)	~	X	~	Λ	~	х	~	Λ.	^		
TB11022018(02)	Y	Х									
EB-APS-48105 (11022018)	X						24				
FS-APS-006 (77.4)(11012018)	X	Х	X	х	X	X	Х	х	х		
FS-APS-003 (98.9) (11012018)	Х	Х	X	х	X	X	Х	х	х		
FS-APS-007 (14.5) (11012018)	Х	Х	х	х	Х	Х	Х	х	х		
FS-APS-008 (14.9) (11022018)	Х	Х	х	Х	Х	Х	Х	Х	х		
TB11022018		Х									
EB-APS-48108 (11012018)	Х										
EB-APS-48105 (11012018)	Х										
EB-APS-48108 (11022018)	Х										
FS-APS-008 (43.2)(11052018)	Х	Х	Х	Х	Х	Х	х	Х	Х		
FS-APS-007 (74.6)(11052018)	Х	х	Х	Х	Х	Х	Х	Х	Х		
FS-APS-004 (14.3)(11052018)	Х	х	Х	Х	Х	Х	Х	Х	Х		
EB-APS-48108 (11062018)	Х	х	Х	Х	Х	Х	Х	Х	Х		
TB11062018		х									
EB-APS-48108 (11052018)	Х										
EB-APS-48105 (11052018)	Х										
EB-APS-48105 (11062018)	Х										
FS-APS-004 (86.1)(11062018)	Х	Х	Х	Х	Х	Х	Х	Х	Х		
FS-APS-005(14.7)(11062018)	Х	Х	Х	Х	Х	Х	Х	Х	Х		
FS-APS-005(14.7)(11062018)MS	Х	Х	Х	Х	Х	Х	Х	Х	Х		
FS-APS-005(14.7)(11062018)MSD	х	Х	Х	Х	Х	Х	Х	Х	Х		
FS-APS-009(14.5)(11062018)	х	Х									
TB11072017											
EB-APS-48108(11072018)	х										
EB-APS-48105(11072018)	х										
FS-APS-005(43.3)(11072018)	х	х	х	х	х	Х	х	Х	х		
FS-APS-009(106.6)(11072018)		х									
TB (11072018)		х									
FS-APS-005(83.1)(11082018)	Х	х	х	х	х	х	х	х	х		
FS-APS-010(14.6)(11082018)	X	х	x	x	X	X	X	X	x		
FS-APS-DUP2(11082018)(FS-APS-005(83.1))		X	x	X	X	X	X	X	x		
FS-APS-011(11.9)(11082018)	x	x	x	x	x	x	x	x	x		
TB(11082018)		x									
FS-APS-011(22.9)(11092018)	х	x	х	х	х	х	х	х	х		
EB-APS-48108(11082018)	x	^	~	л	^	~	~	Λ			
EB-APS-48108(11082018)	x										
EB-APS-48105(11082018) EB-APS-48108(11092018)	X										
EB-APS-48108(11092018) EB-APS-48105(11092018)	X										
· · · · · ·	^	х	х						х	х	Other = Flashpoint
APS Purge& Develop Water		~	л		1					Λ	Cuter - masupoliti

								n (		01	
Sample Name	PFAS	VOCs	Metals	CN	SVOCs	TOC	PCBs	Pest- icides	pН	Other *	Notes
								iciaes			
WC-18FS (05302019)		Х	Х	Х	Х		Х	Х	Х	Х	initially on COC as FS-SoilWaste (05302019); other = Herb, Rxt CN & S, Flashpoint
WC-19FS (06112019)	х	x	x	X	X	х	x	X	x	X	other = 310.13; pH cancelled per lab
WC-22FS (07152019)	х										rev'd to report PFAS to MDL
WC-23FS(07152019)		х	х	х	х		х	х	х	х	All test are TCLP (except PCBs); other = TCLP Herb, Rxt CN & S, Flashpoint
FS-MW-13B (30.5)-07222019	х	х	х	х	X/X	х	х	х	х	X	SVOC SIM includes 1/4-Dioxane; Other = Cyanide, Weak Acid Dissociable
FS-MW-13A (15.5)-07222019	X	x	x	X	X/X	X	x	X	x	x	SVOC SIM includes 1,4-Dioxane; Other = Cyanide, Weak Acid Dissociable
FS-MW-13A (15.5)-07222019 MS	x	x	x	х	X/X	x	X	X		x	SVOC SIM includes 1,4-Dioxane; Other = Cyanide, Weak Acid Dissociable
FS-MW-13A (15.5)-07222019 MSD	x	x	x	X	X/X	x	x	X		x	SVOC SIM includes 1,4-Dioxane; Other = Cyanide, Weak Acid Dissociable
FS-EB-07222019	X	X	x	X	X/X	X	x	X	х	X	SVOC SIM includes 1,4-Dioxane; Other = Cyanide, Weak Acid Dissociable
FS-TB-07222019	x	X		~	7.77	~		~	~	~	o voe onvinendeo 1/1 Dioxano, o diel - Cyanae, veak riek Diooekole
FS-TMW-001 (15)-07222019			х								
FS-TMW-004 (9.5)-07222019			x								
FS-TMW-003 (18.5)-07222019			x								
FS-MW-3(14.25)(07232019)	х	х	x	х	X/X	х	х	х	х	х	SVOC SIM includes 1,4-Dioxane; Other = Cyanide, Weak Acid Dissociable
FS-MW-009C(97.3)(07232019)	x	x	x	x	X/X	x	x	x	x	x	SVOC SIM includes 1,4-Dioxane; Other = Cyanide, Weak Acid Dissociable
FS-MW-007A(15)(07232019)	x	x	x	x	X/X X/X	x	x	x	x	X	SVOC SIM includes 1,4-Dioxane; Other = Cyanide, Weak Acid Dissociable
FS-MW-12B(45)(07232019)	x	x	x	x	X/X X/X	x	x	x	x	x	SVOC SIM includes 1/4-Dioxane; Other = Cyanide, Weak Acid Dissociable
FS-MW-1(17.75)(07232019)	x	x	X	x	X/X X/X	x	x	x	x	x	SVOC SIM includes 1/4-Dioxane; Other = Cyanide, Weak Acid Dissociable
FS-MW-012A(12.5)(07232019)	x	x	X	x	X/X X/X	x	x	x	x	x	SVOC SIM includes 1/4-Dioxane; Other = Cyanide, Weak Acid Dissociable
FS-MW-012C(62.5)(07232019)	X	X	X	x	X/X X/X	x	X	X	x	x	SVOC SIM includes 1/4-Dioxane; Other = Cyanide, Weak Acid Dissociable
FS-MW-008B(37.5)-07232019	X	X	X	x	X/X X/X	X	X	X	x	x	SVOC SIM includes 1/4-Dioxane; Other = Cyanide, Weak Acid Dissociable
DUP-07232019 FS-MW-008B(37.5)-07232019	X	X	X	x	X/X X/X	X	X	X	x	x	SVOC SIM includes 1,4-Dioxane; Other = Cyanide, Weak Acid Dissociable
FS-EB-07232019	X	X	X	X	X/X	x	x	X	x	X	SVOC SIM includes 1,4-Dioxane; Other = Cyanide, Weak Acid Dissociable
FS-TB-07232019	~	X	~	Л	λ/ λ	л	~	Х	~	Х	Svoe Silvi includes 1,4-Dioxane, Other - Cyanide, Weak Acid Dissociable
DUP-07242019 FS-MW-002A(11.5)-											
07242019	Х	Х	Х	Х	X/X	Х	Х	Х	х	х	SVOC SIM includes 1,4-Dioxane; Other = Cyanide, Weak Acid Dissociable
FS-MW-007B(55)-07242019	х	х	х	х	X/X	х	х	х	х	X	SVOC SIM includes 1/4-Dioxane; Other = Cyanide, Weak Acid Dissociable
FS-MW-011A(18.5)-07242019	X	X	x	X	X/X	X	X	X	x	X	SVOC SIM includes 1,4-Dioxane; Other = Cyanide, Weak Acid Dissociable
FS-MW-007C(77.5)-07242019	x	x	x	x	X/X	x	x	x	x	x	SVOC SIM includes 1,4-Dioxane; Other = Cyanide, Weak Acid Dissociable
FS-MW-002A(11.5)-07242019	x	x	x	x	X/X	x	x	x	x	x	SVOC SIM includes 1,4-Dioxane; Other = Cyanide, Weak Acid Dissociable
FS-MW-002C(135)-07242019	x	x	x	X	X/X	x	x	x	x	x	SVOC SIM includes 1,4-Dioxane; Other = Cyanide, Weak Acid Dissociable
FS-MW-005A(14.5)-07242019	x	x	x	x	X/X	x	x	x	x	x	SVOC SIM includes 1/4 Dioxane; Other = Cyanide, Weak Acid Dissociable
FS-MW-005B(45.5)-07242019	x	x	x	x	X/X X/X	x	X	x	x	x	SVOC SIM includes 1/4 Dioxane; Other = Cyanide, Weak Acid Dissociable
FS-MW-005C(82.5)-07242019	x	x	x	x	X/X X/X	x	X	x	x	x	SVOC SIM includes 1/4 Dioxane; Other = Cyanide, Weak Acid Dissociable
FS-MW-005C(82.5)-07242019 MS	x	X	X	x	X/X X/X	x	X	X	~	x	SVOC SIM includes 1/4-Dioxane; Other = Cyanide, Weak Acid Dissociable
FS-MW-005C(82.5)-07242019 MSD	X	X	X	x	X/X X/X	X	X	X		x	SVOC SIM includes 1,4-Dioxane; Other = Cyanide, Weak Acid Dissociable
FS-MW-003A(14.5)-07242019	x	x	X	x	X/X X/X	x	X	X	х	x	SVOC SIM includes 1,4-Dioxane; Other = Cyanide, Weak Acid Dissociable
FS-EB-07242019	x	X	X	X	X/X X/X	X	X	X	x	X	SVOC SIM includes 1,4-Dioxane; Other = Cyanide, Weak Acid Dissociable
FS-TB-07242019	~	x	~	Л	λ/ λ	л	~	Х	~	л	SVOC SIM Includes 1,4-Dioxane, Other - Cyanide, Weak Acid Dissociable
FS-MW-001A(14.5)-07252019	х	X	х	х	X/X	х	х	х	х	х	SVOC SIM includes 1,4-Dioxane; Other = Cyanide, Weak Acid Dissociable
FS-MW-001A(14.5)-07252019 FS-MW-003B(89.5)-07252019	X	X	X	X	л/л X/X	X	X	X	X	X	SVOC SIM includes 1,4-Dioxane; Other = Cyanide, Weak Acid Dissociable
FS-MW-4(13.57)-07252019	X	X	X	X	л/л X/X	X	X	X	X	x	SVOC SIM includes 1,4-Dioxane; Other = Cyanide, Weak Acid Dissociable
FS-EB-07252019 FS-EB-07252019	X	X	X	X	л/л X/X	X	X	X	X	x	SVOC SIM includes 1,4-Dioxane; Other = Cyanide, Weak Acid Dissociable
FS-EB-07252019 FS-TB-07252019	^	X	^	~	~/ ~	^	^	л	^	^	5 VOC 5111 merudes 1,4-Dioxane; Other – Cyanide, Weak Acid Dissociable
	х		v		х	v			х	v	Matale - TAL & discolved Other - Dis Chler & Sulf: Alkalinity SVOC - 14D anti-
FS-MW-4(10232019)-B2 TB (06042019)	~	X X	Х		~	х			^	х	Metals = TAL & dissolved. Other = Dis Chlor & Sulf; Alkalinity. SVOC = 1,4D only.
10 (00042019)	L	Λ			1						

## Table 4Summary of Site Characterization SamplesFormer Oak Mitsui - 80 First Street



### Notes and Abbreviations

1 - Analytical methods for the above analytes are presented in Table 16 - Summary of Analytical Methods.

2 - PFAS = Per- and Polyfluoroalkyl Substances, VOCs = Volatile Organic Compounds, SVOCs = Semi-volatile Organic Compounds, TOC = Total Organic Carbon, PCBs = Polychlorintaed Biphenyls.



# Table 5Monitoring Well Construction DetailsFormer Oak Mitsui - 80 First Street

			Ground	Reference Elevation (ft amsl)				-		Elevation of		Outer	T d	
Monitoring Well	Date of	Total	Surface		Well	Screen	Sand Pack	Inte	erval	Inter	val	Casing	Loca	tion
Location	Installation	Depth (ft bgs)	Elevation (ft amsl)		Diameter (in)	Slot Size (in)	Grain Size (mm)	Top (ft bgs)	Bottom (ft bgs)	Top (ft amsl)	Bottom (ft amsl)	Depth (ft bgs)	Northing	Easting
FS-MW-001A	15-May-2019	18	429.7	429.4	2	0.01	0.6-0.8	12	17	417.4	412.4	na	1483984.26	798645.89
FS-MW-002A	15-May-2019	14	426.8	426.5	2	0.01	0.6-0.8	9.0	14.0	417.5	412.5	na	1484185.54	798734.04
FS-MW-002C	17-May-2019	140	426.9	426.5	2	0.01	0.6-0.8	130	140	296.5	286.5	na	1484190.16	798737.14
FS-MW-003A	30-May-2019	17	427.1	426.6	2	0.01	0.6-0.8	12.0	17.0	414.6	409.6	na	1484257.89	798848.37
FS-MW-003B	29-May-2019	92	427.3	426.7	2	0.01	0.6-0.8	87	92	339.7	334.7	na	1484241.92	798854.19
FS-MW-005A	13-Jun-2019	17	428.4	427.9	2	0.01	0.6-0.8	12.0	17.0	415.9	410.9	na	1484370.89	799086.68
FS-MW-005B	13-Jun-2019	48	428.4	427.8	2	0.01	0.6-0.8	43	48	384.8	379.8	na	1484381.50	799085.26
FS-MW-005C	13-Jun-2019	85	428.3	427.8	2	0.01	0.6-0.8	80	85	347.8	342.8	na	1484391.41	799083.05
FS-MW-007A	5-Jun-2019	20	426.8	426.3	2	0.01	0.6-0.8	10	20	416.3	406.3	na	1484472.19	798890.53
FS-MW-007B	27-Jun-2019	60	426.8	426.4	2	0.01	0.6-0.8	50	60	376.4	366.4	na	1484481.69	798894.34
FS-MW-007C	27-Jun-2019	80	426.7	426.2	2	0.01	0.6-0.8	75	80	351.2	346.2	na	1484490.78	798898.53
FS-MW-008B	10-Jun-2019	40	428.1	427.7	2	0.01	0.6-0.8	35	40	392.7	387.7	na	1484676.10	799003.53
FS-MW-009C	19-Jun-2019	100	429	428.7	2	0.01	0.6-0.8	95	100	333.7	328.7	na	1484152.17	798948.33
FS-MW-011A	25-Jun-2019	21	424.5	424	2	0.01	0.6-0.8	16	21	408	403	na	1484818.30	799172.70
FS-MW-012A	6-Jun-2019	15	427.2	426.8	2	0.01	0.6-0.8	10	15	416.8	411.8	na	1484599.93	798949.55
FS-MW-012B	7-Jun-2019	50	427	426.6	2	0.01	0.6-0.8	40	50	386.6	376.6	na	1484592.37	798951.75
FS-MW-012C	7-Jun-2019	65	426.9	426.2	2	0.01	0.6-0.8	60	65	366.2	361.2	na	1484590.54	798943.02
FS-MW-013A	12-Jun-2019	18	428.4	428.1	2	0.01	0.6-0.8	13	18	415.1	410.1	na	1484733.28	799022.36
FS-MW-013B	12-Jun-2019	33	428.6	428.1	2	0.01	0.6-0.8	28	33	400.1	395.1	na	1484741.43	799026.86
FS-TMW-001	24-Jun-2019	20	428.7	428.3	2	0.01	0.6-0.8	10	20	418.3	408.3	na	1484372.16	798996.25
FS-TMW-002	24-Jun-2019	14	428.5	428.3	2	0.01	0.6-0.8	4	14	424.3	414.3	na	1484344.48	798970.51
FS-TMW-003	24-Jun-2019	23.5	428.3	428	2	0.01	0.6-0.8	14	24	414.5	404.5	na	1484295.15	798995.51
FS-TMW-004	19-Jun-2019	12	428.7	428.3	2	0.01	0.6-0.8	7	12	421.3	416.3	na	1484364.08	799008.10
FS-MW-1	-	22.82	428.3	428.2	2	0.01	0.6-0.8	12.75	22.75	415.45	405.45	na	1484708.74	799014.62
FS-MW-3	-	19.19	429	428.7	2	0.01	0.6-0.8	9.25	19.25	419.45	409.45	na	1484148.43	798939.16
FS-MW-4	-	18.22	429	428.7	2	0.01	0.6-0.8	8.57	18.57	420.13	410.13	na	1484172.65	799110.14

### Notes and Abbreviations

ft = feet

in = inches

amsl = above mean sea level

mm = millimeters

bgs = below ground surface

na- Not Applicable

Wells constructed with 2-inch diameter polyvinyl chloride (PVC) screen and riser Survey coordinates are in NAD83 State Plane New York East FIPS 3101 (US Feet).

Oak Mitsui 80 First St, Hoosick Falls, NY

Site Characterization and IRM\* Soil Sample Results

### DETECTED COMPOUNDS ONLY

										ices within soil left	•							
				Area			Treater 4&5)			eater 2&3)		AOC 4 (Treater 2/		AOC 5 (D			C 6 (11-20 Spent	
				Date	12/5/2017	11/3/2017	11/16/2017	12/7/2017	11/13/2017	11/13/2017	11/13/2017	11/17/2017	11/20/2017	11/30/2017	11/30/2017	10/4/2017	10/20/2017	
		L	ocation 8	& Depth	B101A (13')	S108 (4'-8')	S105A1 (4'-8')	S105A1 (4'-8')	B103 (6')	S111 (2'-6')	S115 (8'-12')	B104A (14')	S117 (6'-12')	B106 (9')	S118 (2'-6')	Spent Tank Bottom (13')	Spent Tank South Sidewall E (6'-10')	Spent Tank North Sidewall E (6'-10')
	Part 375 Protection of Groundwater		Comm.					Repeat Sample for										
Parameter	SCO	SCO	SCO	Units				PCBs only										
Volatile Organic Compounds (VOC	Cs)																	
1,2,3-Trichlorobenzene	NS			5 ppm				NA			NA						NA	NA
1,2,4-Trichlorobenzene	3.6			5 ppm				NA			NA						NA	NA
1,2-Dichlorobenzene	1.1			) ppm				NA			NA						NA	NA
1,3-Dichlorobenzene	2.4			) ppm				NA			NA						NA	NA
1,4-Dichlorobenzene	1.8			) ppm				NA			NA						NA	NA
2-Butanone	0.12			5 ppm				NA			NA						NA	NA
Acetone	0.05			) ppm		0.0098 J		NA			NA		0.088				NA	NA
Benzene	0.06			1 ppm				NA			NA						NA	NA
Bromomethane	NS			5 ppm				NA			NA						NA	NA
Carbon disulfide	NS			5 ppm				NA			NA					0.0005.1	NA	NA
Chloroform	0.37			) ppm				NA			NA	-				0.0005 J vs		NA
Cyclohexane	NS			5 ppm				NA			NA	-					NA	NA
Ethylbenzene	1	780		) ppm				NA			NA						NA	NA
Isopropylbenzene	NS			5 ppm				NA			NA						NA	NA
Methyl cyclohexane	NS 0.12			5 ppm				NA			NA						NA	NA
Methyl ethyl ketone	0.12 NA			) ppm A ppm				NA			NA						NA	NA
Styrene				) ppm		0.00022 1		NA			NA						NA	NA
Toluene o-Xylene	0.7					0.00033 J		NA			NA						NA	NA
p/m-Xylene	NS NS			5 ppm 5 ppm				NA NA			NA NA						NA NA	NA NA
				ol hhiii				I NA			INA NA						NA NA	NA NA
Semivolatile Organic Compounds 2,4-Dimethylphenol						1	1		1	1		1	[	1	1	1		NA
	NS NS			5 ppm				NA			NA						NA	NA
2-Methylnaphthalene 2-Methylphenol	0.33			5 ppm				NA			NA						NA	NA
3,3'-Dichlorobenzidine	0.33 NS			5 ppm		51 UJ		NA			NA		49 UJ				NA	NA
3-Methylphenol/4-Methylphenol	0.33			5 ppm 5 ppm		51 03		NA NA			NA NA		49 03				NA NA	NA NA
4-Chloroaniline	NS			5 ppm			35 U				NA NA		33 UJ	32 UJ	34 UJ		NA	NA
Acenaphthene	98			) ppm			55 0.	NA NA			NA NA		33 01	52 05			NA	NA
Acenapthylene	107			) ppm				NA			NA						NA	NA
Anthracene	1,000			) ppm				NA			NA						NA	NA
Benzo(a)anthracene	1,000	1,000		5 ppm				NA			NA						NA	NA
Benzo(a)pyrene	22			L ppm				NA			NA					0.41 J	NA	NA
Benzo(b)fluoranthene	1.7			5 ppm				NA	1		NA					0.35 J	NA	NA
Benzo(g,h,i)perylene	1,000			) ppm			1	NA	1		NA	1				0.30 J	NA	NA
Benzo(k)fluoranthene	1,000			5 ppm			1	NA	1	1	NA					0.19 J	NA	NA
Biphenyl	NS			5 ppm			1	NA	1	1	NA						NA	NA
Carbazole	NS			5 ppm				NA	1		NA						NA	NA
Chrysene	1	110		5 ppm				NA			NA					0.30 J	NA	NA
Dibenzo(a,h)anthracene	1,000			5 ppm				NA			NA						NA	NA
Dibenzofuran	210			) ppm				NA			NA						NA	NA
Fluoranthene	1,000			) ppm				NA			NA					0.46 J	NA	NA
Fluorene	386			) ppm				NA			NA						NA	NA
Hexachlorocyclopentadiene	NS			5 ppm		170 UJ		NA			NA					ND	NA	NA
Indeno(1,2,3-cd)pyrene	8.2			5 ppm			T	NA	l I	1	NA					0.33 J	NA	NA
Naphthalene	12	1,000		) ppm				NA			NA						NA	NA
Phenanthrene	1,000			) ppm				NA			NA					0.22 J	NA	NA
Phenol	0.33	1,000	500	) ppm				NA			NA						NA	NA
Pyrene	1,000	1,000	500	) ppm				NA			NA					0.41 J	NA	NA

Oak Mitsui

80 First St, Hoosick Falls, NY

Site Characterization and IRM\* Soil Sample Results

DETECTED COMPOUNDS ONLY (\*IRM samples exhibiting SCO exceedances within soil left in place)

							(*IRM	samples exhibit	ing SCO exceedan	ces within soil left	in place)							
				Area			Treater 4&5)		AOC 3 (Tre	,		OC 4 (Treater 2/		AOC 5 (D	rum Deck)	AOC	C 6 (11-20 Spent 1	Fank)
				Date	12/5/2017	11/3/2017	11/16/2017	12/7/2017	11/13/2017	11/13/2017	11/13/2017	11/17/2017	11/20/2017	11/30/2017	11/30/2017	10/4/2017	10/20/2017	
		Lc	ocation &	Depth	B101A (13')	S108 (4'-8')	S105A1 (4'-8')	S105A1 (4'-8')	B103 (6')	S111 (2'-6')	S115 (8'-12')	B104A (14')	S117 (6'-12')	B106 (9')	S118 (2'-6')	Spent Tank Bottom (13')	Spent Tank South Sidewall E (6'-10')	Spent Tank North Sidewall E (6'-10')
Parameter	Part 375 Protection of Groundwater SCO		Part 375 Comm. SCO	Units				Repeat Sample for PCBs only										
				••••••	I			1 025 0117							1	I		
PCBs	NC	NC	NC				0.142	0.224			NA				1		NA	
Aroclor 1254 Aroclor 1260	NS NS	NS NS		ppm ppm			0.142	0.234			NA NA						NA NA	NA NA
Total PCBs	3.2		1	ppm			0.142	0.234			NA NA						NA NA	NA
Pesticides	5.2	25	1	ppiii			0.142	0.254			INA .							INA.
	120	0.1	47		I		[		-			r		-	1	0.62 1		
4,4'-DDT	136			ppm				NA			NA				0.000012.NL	0.63 J	NA	NA
delta-BHC	0.25	1,000		ppm			0 00227 00	NA			NA				0.000813 N+		NA	NA
Dieldrin Endosulfan II	0.1	2.8 920		ppm ppm			0.00227 PIR 0.00226 PIR	NA			NA						NA	NA
Endosulfan II Endosulfan sulfato	102 1,000	920		ppm ppm			0.00226 M	NA			NA						NA	NA
Endosulfan sulfate	1,000 NS	920 NS						NA NA			NA NA						NA NA	NA NA
Heptachlor epoxide	INS	INS	NS	ppm			l	NA	l		NA			I		I		INA
Metals				1		_												1
Aluminum	NS			ppm	17700	9760	9090	NA	3250	11700	NA	18000	8290	7250	8180	11200	NA	NA
Antimony	NS			ppm	1.65 J			NA	0.329 UJ	0.362 UJ	NA		· ·-	0.323 UJ	0.331 UJ	0.59 J	NA	NA
Arsenic	16			ppm	8.09	5.59	4.04	NA	4.44	7.28	20.6	7.66	4.17	2.84 J	12.3 J	4.5	44.7	68.3
Barium	820	10,000		ppm	176	48.8 J+	32.5	NA	26.8	53.1	35.7	173	25.7	18.4	28	46.8	36.9	41.3
Beryllium	47	2,700		ppm	0.956	0.28 J	0.244 J	NA	0.243 J	0.382 J	NA	0.84	0.211 J	0.119 J	0.113 J	0.26	NA	NA
Cadmium	7.5	60		ppm	0.541 J	0.418 J+	0.632 J	NA	0.312 J	0.382 J	0.298	1.1	1.06		0.122 J	1.4	1.6	0.827
Calcium	NS			ppm	6310	759	906	NA	756	2300	NA	8140	946	597	727	984 B		NA
Chromium, hexavalent	19	NS		ppm				NA			NA			-			NA	NA
Chromium, trivalent	NS	NS			21.4	10 5	0.27	NA	11	12.0	NA 1.54	10.0	0.00	7 22 1	20 7 1	20.0	NA	NA 16.0
Total Chromium	NS	NS		ppm	21.4	10.5	9.37	NA	11	12.8	1.54	19.6	8.88	7.22 J	20.7 J	38.8	26.3	16.8
Cobalt	NS	NS		ppm	19	9.64	9.01	NA	9.76	11.1	NA CE 1	17.1	8.6	8.17	8.66	8.2	NA	NA
Copper Total Cyanide	1,720 40	10,000 10,000		ppm ppm	40.2	110 J	16.2 0.24 UJ	NA NA	<u>364</u> 0.24 UJ	25.7 0.24 UJ	65.1 NA	38.4 0.28 UJ	284 0.24 UJ	<u>315</u> 0.21 UJ	1160 0.23 UJ	1530	<b>4490</b> NA	520 NA
-	40 NS	10,000 NS		ppm	31600	21500	19000	NA	18800	21500	NA	31900	17700	15900 J	20900 J	22100 B	NA	NA
Iron Lead	450	3,900	1,000		21.6	7.83 J-	8.95 J	NA	7.3	15.4	75.2	20.9 J	8.45	8.29 J	10.9 J	14	10.8	56.2
Magnesium		3,900 NS	1,000 NS		8700	3710	3600	NA	3720 J+	4200 J+		10700	3230	3460	3860	4480	NA	NA
Manganese	2,000	10,000	10,000	- F F	918	506	463 J-	NA	404 J+	4200 J+ 616 J+	NA	948 J-	383	342	320	268 B	NA	NA
Mercury	0.73	5.7	2.8	· · ·	0.03 J	0.03 J	0.02 J	NA	0.02 J	1.4	0.73	0.04 J	505	512	0.04 J+	0.014 J	0.04 J	0.16
Nickel	130			ppm	32.7	19.3 J	16.6	NA	17.1	19.6	NA	31.8	14.5	17.1 J	19 J	25.4	NA	NA
Potassium	NS			ppm	2010	734	634	NA	647	751	NA	2570	444	261	484	1220	NA	NA
Selenium	4	6,800	1,500			0.734 J		NA		, 51	0.199 J			0.219 UJ	0.225 UJ		0.273 J	0.248 J
Silver	8.3		1,500					NA			0.474 U					1	0.448 U	0.467 U
Sodium	NS			ppm	313	310 J-	76.6 J-	NA	43.2 J-	42.3 J-	NA	220 J-	23.9 J-	19.6 J-	67.2 J-		NA	NA
Thallium	NS			ppm	-		0.307 J	NA		~ ~	NA	0.601 J		0.268 UJ	0.275 UJ		NA	NA
Vanadium	NS			ppm	21.1	10.5	9.42	NA	8.86	11.8	NA	20	8.03	7.63 J	10.7 J		NA	NA
Zinc	2,480	10,000			95.3	58	50.2	NA	63.7	71.2	NA	87.3	50.6	52.4 J	58.2 J	1	NA	NA
PFAS					I											•		
Perfluorobutonic acid (PFBA)	NS	NS	NS	ppb		NA	NA	NA			NA	NA				0.29	NA	NA
Perfluoropentanoic acid (PFPeA)	NS					NA	NA	NA			NA	NA					NA	NA
Perfluorohexanoic acid (PFHxA)	NS			ppb		0.239 J		NA		0.198 UJ	NA					1	NA	NA
Perfluoroheptanoic acid (PFHpA)	NS			ppb				NA			NA						NA	NA
Perfluorooctanoic acid (PFOA)	NS			ppb	1.25 JB	4.52	1.54 J	NA	0.736 J		NA	0.491 J	0.115 J		0.846 J	3.8	NA	NA
1H,1H,2H,2H-Perfluorooctanesulfonic	NS			ppb	=	NA	NA	NA			NA	NA					NA	NA
Perfluorononanoic acid (PFNA)	NS			ppb				NA			NA	11/1					NA	NA
Perfluoroundecanoic acid (PFUnA)	NS			ppb				NA	0.0707 UJ	0.0764 UJ	NA NA	0.0898 UJ		0.0716 UJ	0.0691 UJ		NA	NA
Perfluorooctanesulfonic acid (PFOS)	NS					0.84 J		NA	0.247 J	0.157 UJ		0.0000 00		0.0710 05	0.0001 00		NA	NA
Perfluorodecanesulfonic acid (PFDS)	NS					0.84 J NA	NA	NA NA	0.217 J	0.157 05	NA NA	NA					NA	NA
Perfluorooctane Sulfonamide (FOSA)	NS					NA	NA	NA NA			NA NA	NA					NA NA	NA
Perfluorotridecanoic acid (PFTrDA)	NS			ppb		11/7		NA NA			NA NA	INA					NA NA	NA
Perfluorotetradecanoic acid (PFTDA)																		
	NS	NS	NS	ppb				NA			NA						NA	NA

Oak Mitsui

80 First St, Hoosick Falls, NY Site Characterization and IRM\* Soil Sample Results

### DETECTED COMPOUNDS ONLY

(\*IRM samples exhibiting SCO exceedances within soil left in place)

				Area		AOC 1 & 2 (	Treater 4&5)		AOC 3 (Tre	eater 2&3)	A	OC 4 (Treater 2/	3)	AOC 5 (Dr	um Deck)	AOC	C 6 (11-20 Spent T	「ank)
				Date	12/5/2017	11/3/2017	11/16/2017	12/7/2017	11/13/2017	11/13/2017	11/13/2017	11/17/2017	11/20/2017	11/30/2017	11/30/2017	10/4/2017	10/20/2017	10/20/2017
		L	ocation &	Depth	B101A (13')	S108 (4'-8')	S105A1 (4'-8')	S105A1 (4'-8')	B103 (6')	S111 (2'-6')	S115 (8'-12')	B104A (14')	S117 (6'-12')	B106 (9')	S118 (2'-6')	Spent Tank Bottom (13')	Spent Tank South Sidewall E (6'-10')	Spent Tank North Sidewall E (6'-10')
Parameter	Part 375 Protection of Groundwater SCO	Part 375 Industrial SCO		Units				Repeat Sample for PCBs only										
Perfluorobutanesulfonic acid (PFBS)	NS	NS	NS	ppb			0.237 UJ	NA		0.246 UJ	NA	0.289 UJ			0.223 UJ		NA	NA
N-Methyl Perfluorooctanesulfonamidoa	NS	NS	NS	ppb			0.0816 UJ	NA	0.0781 UJ	0.0845 UJ	NA	0.0993 UJ		0.0792 UJ	0.0765 UJ		NA	NA
Perfluorohexanesulfonic acid (PFHxS)	NS	NS	NS	ppb				NA		0.251 UJ	NA	0.295 UJ					NA	NA
N-Ethyl Perfluorooctanesulfonamidoac	NS	NS	NS	ppb				NA	0.064 UJ	0.0692 UJ	NA	0.0814 UJ		0.0649 UJ	0.0626 UJ		NA	NA
Perfluroheptanesulfonic Acid (PFHpS)	NS	NS	NS	ppb		NA	NA	NA			NA	NA					NA	NA
1H,1H,2H,2H-Perfluorodecanesulfonic	NS	NS	NS	ppb		NA	NA	NA			NA	NA					NA	NA
Perfluorododecanoic Acid (PFDoA)	NS	NS	NS	ppb				NA			NA						NA	NA
Perfluorodecanoic acid (PFDA)	NS	NS	NS	ppb				NA	0.131 UJ	0.141 UJ	NA			0.132 UJ			NA	NA

### NOTES:

SCO - Soil Cleanup Objective

Blue Highlighted Cells Exceed Industrial SCOs

Yellow Highlighted Cells Exceed Commercial SCOs but are less than Industrial SCOs Bold Cells Exceed Protection of Groundwater SCOs

Blank cells indicate parameters that were not detected

NS - No SCO Standard established under 6NYCRR Part 375

NA - Not Analyzed

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value P - The RPD between the results for the two columns exceeds the method-specified criteria.

I - The lower value for the two columns has been reported due to obvious interference.

B - Compound also detected in the method blank

vs - Reported analyte concentrations are below 0.2 ppm and may be bias

ppm- parts per million ppb- parts per billion

Oak Mitsui

80 First St, Hoosick Falls, NY Site Characterization and IRM\* Soil Sample Results

DETECTED COMPOUNDS ONLY

								amples exhibiting sc	O exceedances withi						1		
				Area			Spent Tank)			AOC 8 (Fi				QAQC LAB)		AOC 10 (Copper Pr	
				Date	11/29/2017	11/29/2017	11/29/2017	11/29/2017	11/30/2017	11/30/2017	11/30/2017	11/17/2017	11/14/2017	11/14/2017	12/7/2017	12/7/2017	12/7/2017
		L	ocation 8	k Depth	S130 (4'-8')	S131 (4'-8')	S132 (2'-5')	B107 (8')	S136 (4'-8')	S137 (4'-8')	B109 (8')	S134 (4'-8')	B110 (7')	S140 (3'-7')	B111 (7')	S142 (3'-7')	DUP103 (3'-7')
Parameter	Part 375 Protection of Groundwater SCO	Part 375 Industrial SCO	Part 375 Comm. SCO	Units													
Volatile Organic Compounds (VOC	(s)											I		1			
1,2,3-Trichlorobenzene	NS	NS	NS	ppm	NA	NA	NA	NA	NA	NA			1	1	1		
1,2,4-Trichlorobenzene	3.6			ppm	NA	NA	NA	NA	NA	NA							
1,2-Dichlorobenzene	1.1	1,000		ppm	NA	NA	NA	NA	NA	NA							
1,3-Dichlorobenzene	2.4	560	280	ppm	NA	NA	NA	NA	NA	NA							
1,4-Dichlorobenzene	1.8	250		ppm	NA	NA	NA	NA	NA	NA							
2-Butanone	0.12	NS		ppm	NA	NA	NA	NA	NA	NA	42 UJ	0.72 UJ					
Acetone	0.05	1,000		ppm	NA	NA	NA	NA	NA	NA			0.006 J	0.0038 J			
Benzene	0.06	89		ppm	NA	NA	NA	NA	NA	NA					I		
Bromomethane	NS			ppm	NA	NA	NA	NA	NA	NA	0.070				l		
Carbon disulfide	NS 0.27	NS 700		ppm	NA	NA	NA	NA	NA	NA	0.072 JU						
Chloroform Cyclohexane	0.37 NS	700 NS		ppm ppm	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA					l		
Ethylbenzene	1	780		ppm	NA	NA	NA NA	NA	NA	NA							
Isopropylbenzene	NS	NS		ppm	NA	NA	NA	NA	NA	NA							
Methyl cyclohexane	NS	NS		ppm	NA	NA	NA	NA	NA	NA							
Methyl ethyl ketone	0.12			ppm	NA	NA	NA	NA	NA	NA							
Styrene	NA			ppm	NA	NA	NA	NA	NA	NA							
Toluene	0.7	1,000		ppm	NA	NA	NA	NA	NA	NA							
o-Xylene	NS	NS		ppm	NA	NA	NA	NA	NA	NA							
p/m-Xylene	NS	NS	NS	ppm	NA	NA	NA	NA	NA	NA							
Semivolatile Organic Compounds	(SVOCs)														-		
2,4-Dimethylphenol	NS			ppm	NA	NA	NA	NA	NA	NA							
2-Methylnaphthalene	NS			ppm	NA	NA	NA	NA	NA	NA							
2-Methylphenol	0.33	NS		ppm	NA	NA	NA	NA	NA	NA							
3,3'-Dichlorobenzidine	NS	NS		ppm	NA	NA	NA	NA	NA	NA							
3-Methylphenol/4-Methylphenol	0.33	NS		ppm	NA	NA	NA	NA	NA	NA							
4-Chloroaniline Acenaphthene	NS 98	NS 1,000		ppm ppm	NA	NA NA	NA	NA	NA	NA							
Acenapthylene	98	1,000		ppm	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA							
Anthracene	1,000			ppm	NA	NA	NA	NA	NA	NA							
Benzo(a)anthracene	1,000	1,000		ppm	NA	NA	NA	NA	NA	NA							0.021 J
Benzo(a)pyrene	22			ppm	NA	NA	NA	NA	NA	NA					1	1	0.021 5
Benzo(b)fluoranthene	1.7			ppm	NA	NA	NA	NA	NA	NA							
Benzo(g,h,i)perylene	1,000	1,000		ppm	NA	NA	NA	NA	NA	NA	1				1		
Benzo(k)fluoranthene	1.7	110	56	ppm	NA	NA	NA	NA	NA	NA							
Biphenyl	NS			ppm	NA	NA	NA	NA	NA	NA							
Carbazole	NS			ppm	NA	NA	NA	NA	NA	NA							
Chrysene	1	110		ppm	NA	NA	NA	NA	NA	NA					ļ		0.021 J
Dibenzo(a,h)anthracene	1,000	1.1		ppm	NA	NA	NA	NA	NA	NA					ļ		
Dibenzofuran	210	1,000		ppm	NA	NA	NA	NA	NA	NA					l		
Fluoranthene	1,000	1,000		ppm	NA	NA	NA	NA	NA	NA							0.024 J
Fluorene Hexachlorocyclopentadiene	386	1,000		ppm ppm	NA	NA NA	NA	NA	NA	NA					<b> </b>		
Indeno(1,2,3-cd)pyrene	NS 8.2			ppm ppm	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA					l		
Naphthalene	12	1,000		ppm	NA	NA NA	NA NA	NA NA	NA NA	NA NA					1		
Phenanthrene	1,000	1,000		ppm	NA	NA	NA NA	NA	NA	NA	0.042 J				<u> </u>		0.029 J
Phenol	0.33	1,000		ppm	NA	NA	NA	NA	NA	NA	0.012 J				1		0.025 5
Pyrene	1,000	1,000		ppm	NA	NA	NA	NA	NA	NA					1		0.024 J

Oak Mitsui

80 First St, Hoosick Falls, NY

Site Characterization and IRM\* Soil Sample Results

DETECTED COMPOUNDS ONLY (\*IRM samples exhibiting SCO exceedances within soil left in place)

							(*IRM s	amples exhibiting SC	Dexceedances withir	n soil left in place)							
				Area		AOC 7 (1-10		1		AOC 8 (Fil				QAQC LAB)		AOC 10 (Copper Pre	
				Date	11/29/2017	11/29/2017	11/29/2017	11/29/2017	11/30/2017	11/30/2017	11/30/2017	11/17/2017	11/14/2017	11/14/2017	12/7/2017	12/7/2017	12/7/2017
					S130	S131	S132	B107	S136	S137	B109	S134	B110	S140	B111	S142	DUP103
		Le	ocation 8	k Depth		(4'-8')	(2'-5')	(8')	(4'-8')	(4'-8')	(8')	(4'-8')	(7')	(3'-7')	(7')	(3'-7')	(3'-7')
	Part 375																
	Protection of	Part 375															
	Groundwater	Industrial															
Parameter	SCO	SCO	SCO	Units													
PCBs																	
Aroclor 1254	NS			; ppm	NA	NA	NA	NA	NA	NA							
Aroclor 1260	NS		NS	ppm	NA	NA	NA	NA	NA	NA							
Total PCBs	3.2	25	1	. ppm	NA	NA	NA	NA	NA	NA							
Pesticides			•												-		
4,4'-DDT	136			' ppm	NA	NA	NA	NA	NA	NA							
delta-BHC	0.25	1,000		) ppm	NA	NA	NA	NA	NA	NA							
Dieldrin	0.1	2.8		ppm	NA	NA	NA	NA	NA	NA							
Endosulfan II Endosulfan sulfato	102	920		ppm	NA	NA	NA	NA	NA	NA							
Endosulfan sulfate Heptachlor epoxide	1,000 NS	920 NS		) ppm ; ppm	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA							
	INS	INS		hhui	INA			I NA	NA	INA						l	
Metals	NO	NC		·		<b>NIA</b>				R I A	11000	10200	0500	2250	0000	0510	10.400
Aluminum	NS			ppm	NA	NA	NA	NA	NA	NA	11800	10300	8590	3350	8000	9510	10400
Antimony Arsenic	NS 16			ppm ppm	NA 107	NA 43.6	NA 68.3	NA 141	NA 19.9	NA 161	0.763 J- 4.98	0.677 J- 12.5	1.26 J+ 3.89 J+	1.23 J+ 3.37 J+	0.819 J 8.48	1.07 J 4.37	1.27 J 5.09
Barium	820	10,000		ppm	61.1	48.8	62.1	50.3	46.1	77.7	4.96	67.3	3.89 J+ 27.7	33.5	20.2	38.4	43.2
Beryllium	47	2,700		ppm	NA		NA	NA	NA	NA	0.279 J	0.339 J	0.196 J+	0.263 J	0.2 J	0.309 J	0.328 J
Cadmium	7.5			ppm ppm	4.18	1.61	2.01	3.3 U	0.532	0.568	0.652 J	0.499 J	0.537 J	0.561 J	0.537 J	0.496 J	0.548 J
Calcium	NS			ppm ppm	NA	NA	NA	NA	NA	NA	498 J-	2390 J-	794	655	906	662	625
Chromium, hexavalent	19			ppm	NA	NA	NA	NA	NA	NA							
Chromium, trivalent	NS			ppm	NA	NA	NA	NA	NA	NA							
Total Chromium	NS	NS	NS	5 ppm	14.7	16.7	20.6	27.7	24.4	21.9	18.4	12.5	12	9.92	8.67	11.4	12.2
Cobalt	NS	NS		ppm	NA	NA	NA	NA	NA	NA	8.32 J-	8.78 J-	6.95	6.66	6.76	9.09	10.8
Copper	1,720			) ppm	4950	1020	5270	3780	153	226	379	559	406	372	905	476	501
Total Cyanide	40	10,000		' ppm	NA	NA	NA	NA	NA	NA	0.24 UJ	0.26 UJ	0.24 UJ	0.23 UJ	0.23 UJ	0.23 UJ	
Iron	NS			5 ppm	NA	NA	NA	NA	NA	NA	22400	21300	19200	19400	16000	20600	22200
Lead	450	3,900		) ppm	242	19.4	98.7	23.2	8.94	15.4	8.07	10.4	13.3	10.8	6.79	14.6	16
Magnesium	NS	NS		ppm	NA	NA	NA	NA	NA	NA	4140	3980	3380	3500	3400	3750	4040
Manganese	2,000 0.73	10,000 5.7	10,000		NA 0.08	NA 0.08 J	NA 0.00	NA 0.03 J	NA 0.03 J	NA 0.02 J	239 0.02 J	536 0.04 J	239	241 0.2	201 0.02 J+	488	548 0.14 J+
Mercury Nickel	130			ppm ppm	0.08 NA	0.08 J NA	0.09 NA	0.03 J NA	0.03 J NA	0.02 J NA	17.6 J-	15.6 J-	0.12 16.9	17.7	15.9	0.1 17.2	18.7
Potassium	NS			ppm	NA	NA	NA	NA	NA	NA	609	603	462 J+		380	514	560
Selenium	4	6,800		ppm)	0.925 U	0.89 U		0.921 U	0.894 U	0.611 J	005	0.687 J	402 51	556 51	0.983 J	1.32 J	1.35 J
Silver	8.3			ppm)	0.463 U	0.445 U		0.461 U	0.447 U	0.478 U		0.007 3			0.505 5	1.52 5	1.55 5
Sodium	NS			ppm ppm	NA	NA	NA	NA	NA	NA	25.4 J-	61.8 J-	32 J-	28.1 J-	600	396	440
Thallium	NS			ppm	NA	NA	NA	NA	NA	NA	0.293 UJ	0.296 UJ				0.468 J	0.675 J
Vanadium	NS		NS	ppm	NA	NA	NA	NA	NA	NA	12.4 J-	11.1 J-	9.06	9.2	7.14	8.9	9.65
Zinc	2,480	10,000	10,000	ppm	NA	NA	NA	NA	NA	NA	70.1	63.1	74.3	100	76.6	68.4	74.3
PFAS											-						
Perfluorobutonic acid (PFBA)	NS			; ppb	NA	NA	NA	NA	NA	NA							
Perfluoropentanoic acid (PFPeA)	NS			ppb	NA	NA	NA	NA	NA	NA							
Perfluorohexanoic acid (PFHxA)	NS			; ppb	NA	NA	NA	NA	NA	NA	ļ						
Perfluoroheptanoic acid (PFHpA)	NS			; ppb	NA	NA	NA	NA	NA	NA							
Perfluorooctanoic acid (PFOA)	NS			; ppb	NA	NA	NA	NA	NA	NA	0.275 BU	0.537 JB	1.67 J	0.214 J	0.542 J	0.973 J	0.733 J
1H,1H,2H,2H-Perfluorooctanesulfonic	NS			; ppb	NA	NA	NA	NA	NA	NA							
Perfluorononanoic acid (PFNA)	NS			; ppb	NA	NA	NA	NA	NA	NA							
Perfluoroundecanoic acid (PFUnA)	NS				NA	NA	NA	NA	NA	NA			0.0709 UJ	0.0719 UJ			
Perfluorooctanesulfonic acid (PFOS)	NS				NA	NA	NA	NA	NA	NA							
Perfluorodecanesulfonic acid (PFDS)	NS				NA	NA	NA	NA	NA	NA							
Perfluorooctane Sulfonamide (FOSA)	NS			, ppb	NA	NA	NA	NA	NA	NA							
Perfluorotridecanoic acid (PFTrDA)	NS			ppb	NA	NA	NA	NA	NA	NA							
Perfluorotetradecanoic acid (PFTA)	NS	NS	NS	ppb	NA	NA	NA	NA	NA	NA							

Oak Mitsui 80 First St, Hoosick Falls, NY

### Site Characterization and IRM\* Soil Sample Results

DETECTED COMPOUNDS ONLY

(\*IRM samples exhibiting SCO exceedances within soil left in place)

				Area		AOC 7 (1-10	Spent Tank)			AOC 8 (Fil	tration)		AOC 9 (Q	AQC LAB)		AOC 10 (Copper Pre	ess)
				Date	11/29/2017	11/29/2017	11/29/2017	11/29/2017	11/30/2017	11/30/2017	11/30/2017	11/17/2017	11/14/2017	11/14/2017	12/7/2017	12/7/2017	12/7/2017
		L	ocation 8	. Depth	S130 (4'-8')	S131 (4'-8')	S132 (2'-5')	B107 (8')	S136 (4'-8')	S137 (4'-8')	B109 (8')	S134 (4'-8')	B110 (7')	S140 (3'-7')	B111 (7')	S142 (3'-7')	DUP103 (3'-7')
	Part 375 Protection of Groundwater																
Parameter	SCO	SCO	sco	Units													
Perfluorobutanesulfonic acid (PFBS)	NS	NS	NS	ppb	NA	NA	NA	NA	NA	NA							
N-Methyl Perfluorooctanesulfonamidoa	NS	NS	NS	ppb	NA	NA	NA	NA	NA	NA			0.0784 UJ	0.0795 UJ			
Perfluorohexanesulfonic acid (PFHxS)	NS	NS	NS	ppb	NA	NA	NA	NA	NA	NA							
N-Ethyl Perfluorooctanesulfonamidoac	NS	NS	NS	ppb	NA	NA	NA	NA	NA	NA			0.0642 UJ	0.0651 UJ			
Perfluroheptanesulfonic Acid (PFHpS)	NS	NS	NS	ppb	NA	NA	NA	NA	NA	NA							
1H,1H,2H,2H-Perfluorodecanesulfonic	NS	NS	NS	ppb	NA	NA	NA	NA	NA	NA							
Perfluorododecanoic Acid (PFDoA)	NS	NS	NS	ppb	NA	NA	NA	NA	NA	NA							
Perfluorodecanoic acid (PFDA)	NS	NS	NS	ppb	NA	NA	NA	NA	NA	NA			0.131 UJ	0.133 UJ			

### NOTES:

SCO - Soil Cleanup Objective

Blue Highlighted Cells Exceed Industrial SCOs

Yellow Highlighted Cells Exceed Commercial SCOs but are less than Industrial SCOs Bold Cells Exceed Protection of Groundwater SCOs

Blank cells indicate parameters that were not detected

NS - No SCO Standard established under 6NYCRR Part 375

NA - Not Analyzed

J - Result is less than the RL but greater than or equal to the MDL and the concentration P - The RPD between the results for the two columns exceeds the method-specified

I - The lower value for the two columns has been reported due to obvious interferer

B - Compound also detected in the method blank

vs - Reported analyte concentrations are below 0.2 ppm and may be bias

ppm- parts per million

ppb- parts per billion

Oak Mitsui 80 First St, Hoosick Falls, NY

### Site Characterization and IRM\* Soil Sample Results

DETECTED COMPOUNDS ONLY

				Area	AOC 11 (Ars	enic Lame	ella Pit)		Α	OC 12 (Area of B-21/C-	-5)
				Date	12/5/2017	-	/5/201	7	9/12/2017	12/1/2017	12/1/2017
		L	ocation &		B113 (12')	S150	12')	(8'-	S154 (1'-2')	S155A (1'-2')	S156A (1'-2')
Parameter	Part 375 Protection of Groundwater SCO	Part 375 Industrial SCO	Part 375 Comm. SCO	Units							
Volatile Organic Compounds (VO	Cs)										
1,2,3-Trichlorobenzene	NS	NS							NA	NA	NA
1,2,4-Trichlorobenzene	3.6	NS		ppm					NA	NA	NA
1,2-Dichlorobenzene	1.1	1,000	500	ppm					NA	NA	NA
1,3-Dichlorobenzene	2.4	560	280	ppm					NA	NA	NA
1,4-Dichlorobenzene	1.8	250	130	ppm					NA	NA	NA
2-Butanone	0.12	NS	NS	ppm					NA	NA	NA
Acetone	0.05	1,000	500	ppm					NA	NA	NA
Benzene	0.06	89	44	ppm					NA	NA	NA
Bromomethane	NS	NS	NS	ppm					NA	NA	NA
Carbon disulfide	NS	NS 700		ppm		_			NA	NA	NA
Chloroform	0.37	700	350	ppm					NA	NA	NA
Cyclohexane	NS	NS		ppm					NA	NA	NA
Ethylbenzene	1	780	390	ppm					NA	NA	NA
Isopropylbenzene	NS	NS	NS	ppm					NA	NA	NA
Methyl cyclohexane	NS 0.12	NS	NS 500	ppm					NA	NA	NA
Methyl ethyl ketone	0.12 NA	1,000	NA	ppm					NA	NA	NA
Styrene	0.7	NA 1.000	500	ppm					NA	NA	NA
Foluene		1,000		ppm					NA	NA	NA
o-Xylene	NS NS	NS NS	NS	ppm					NA	NA	NA
o/m-Xylene		INS	NS	ppm					NA	NA	NA
Semivolatile Organic Compounds		NC	NC							NA 1	
2,4-Dimethylphenol	NS	NS NS				-			NA	NA	NA
2-Methylnaphthalene	NS 0.33								NA	NA	NA
2-Methylphenol 3,3'-Dichlorobenzidine	0.33 NS	NS	NS	ppm					NA	NA	NA
3,3 -Dichlorobenzialne 3-Methylphenol/4-Methylphenol		NS NS	NS	ppm					NA	NA	NA
4-Chloroaniline	0.33 NS	NS	NS	ppm					NA	NA	NA
Acenaphthene	98	1,000	NS 500	ppm					NA NA	NA NA	NA NA
•	98	1,000	500	ppm ppm		-				NA	
Acenapthylene Anthracene	1,000		500	ppm					NA NA	NA	NA NA
Benzo(a)anthracene	1,000	1,000	5.6	ppm ppm		-			NA NA	NA NA	NA NA
Benzo(a)pyrene	22	11	5.0	ppm ppm					NA	NA	NA NA
Benzo(b)fluoranthene	1.7	1.1	5.6						NA	NA	NA NA
Benzo(g,h,i)perylene	1,000	1,000	500	ppm					NA	NA	NA NA
Benzo(k)fluoranthene	1,000	1,000	56	ppm					NA	NA	NA
Biphenyl	NS	NS		ppm					NA	NA	NA
Carbazole	NS	NS		ppm					NA	NA	NA
Chrysene	1	110	56	ppm					NA	NA	NA
Dibenzo(a,h)anthracene	1,000	1.1	0.56						NA	NA	NA
Dibenzofuran	210	1,000	350	ppm					NA	NA	NA
Fluoranthene	1,000		500	ppm					NA	NA	NA
Fluorene	386	1,000	500						NA	NA	NA
Hexachlorocyclopentadiene	NS	NS							NA	NA	NA
indeno(1,2,3-cd)pyrene	8.2	11	5.6			-			NA	NA	NA
Naphthalene	12	1,000	500	ppm					NA	NA	NA
Phenanthrene	1,000	1,000	500						NA	NA	NA
Phenol	0.33	1,000	500			1			NA	NA	NA
Pyrene	1,000	1,000	500			-			NA	NA	NA

Oak Mitsui 80 First St, Hoosick Falls, NY

Site Characterization and IRM\* Soil Sample Results

DETECTED COMPOUNDS ONLY

						es within soil left in place		000 12 (Arres of D 21/0	r)
				Area		nic Lamella Pit)		AOC 12 (Area of B-21/C-	
				Date	12/5/2017	12/5/2017	9/12/2017	12/1/2017	12/1/2017
					B113	S150 (8'	S154	S155A	S156A
		L	ocation &	Depth	(12')	12')	(1'-2')	(1'-2')	(1'-2')
	Part 375								
	Protection of		Part 375						
	Groundwater	Industrial	Comm.						
Parameter	SCO	SCO	SCO	Units					
PCBs									
Aroclor 1254	NS	NS	NS	ppm			NA	NA	NA
Aroclor 1260	NS	NS	NS	ppm			NA	NA	NA
Total PCBs	3.2	25	1	ppm			NA	NA	NA
Pesticides							1		
4,4'-DDT	136	94	47	nnm			NA	NA	NA
delta-BHC	0.25	1,000	500	ppm ppm	0.000508 JR	0.000504 JR	NA	NA	NA
Dieldrin	0.25	2.8	1.4	ppm	0.000J00 JK		NA	NA	NA NA
Endosulfan II	102	920	200	ppm			NA	NA	NA
Endosulfan sulfate	1,000	920	200	ppm			NA	NA	NA
Heptachlor epoxide	1,000 NS	NS	NS NS	ppm			NA	NA	NA
	113	Chi		Phil					117
Metals						10000			
Aluminum	NS	NS	NS		6870	12600	NA	NA	NA
Antimony	NS 16	NS 16	NS 16	ppm	0.75 J-	0.766 J-	NA F CR	NA 11.4	NA 10.5
Arsenic	16	16	16	ppm	4.02	6.23	5.68	11.4	10.5
Barium	820	10,000	400	ppm	23.1	85.6	72.1	57.5	49.8
Beryllium	47	2,700	590	ppm	0.203 J	0.591	NA 18.2	NA	NA
Cadmium	7.5	60	9.3	ppm	0.274 J	0.383 J	18.2	4.62	2.29
Calcium	NS 10	NS	NS 100	ppm	1990 J-	1700 J-	NA	NA	NA
Chromium, hexavalent	19	NS	400	ppm			NA	NA	NA
Chromium, trivalent	NS	NS	1,500	ppm	7.00	14.0	NA 27.0	NA	NA
Total Chromium	NS	NS	NS	ppm	7.68	14.6	27.8	54 J-	25.2
Cobalt	NS	NS	NS 270	ppm	6.86 J- 30.8	11.2 J- 29.2	NA 254		NA 838
Copper Total Cyanide	1,720 40	10,000	270 27	ppm	0.24 UJ	0.22 UJ	354 NA	2350 J NA	<u>838</u> NA
'	40 NS	10,000 NS	NS	ppm		24100			
Iron Lead	450		1,000	ppm	14400 8.85	15.8	NA 145	NA 319	NA 284
	430 NS	3,900 NS	1,000 NS	ppm	2970	4880	NA	NA NA	204 NA
Magnesium	2,000	10,000	10,000	ppm ppm	282	785	NA	NA	NA
Manganese Mercury	2,000	5.7	2.8		0.04 J	0.02 J	2.1	4	1.3
Nickel	130	10,000		ppm	12 J-	20.6 J-	NA	NA NA	
Potassium	NS	NS	NS		380	386	NA	NA	NA
Selenium	4	6,800	1,500	· · ·	0.397 J	0.333 J	0.143 J	0.326 J	0.119 J
Silver	8.3	6,800	1,500		0.397 3	0.000 0	0.145 J 0.277 J	1.01	0.119 3
Sodium	NS	0,000 NS	1,500 NS		68.4 J-	118 J-	0.277 J	NA	0.178 J
Thallium	NS	NS	NS	ppm	0.278 UJ	0.316 J-	NA	NA	NA
Vanadium	NS	NS		ppm	7.18 J-	12.2 J-	NA	NA	NA
Zinc	2,480	10,000	10,000		44.6	67.4	NA	NA	NA
PFAS	_,		,	- P				····	
Perfluorobutonic acid (PFBA)	NS	NS	NS	ppb		1	NA	NA	NA
Perfluoropentanoic acid (PFPeA)	NS	NS	NS	ppb			NA	NA	NA
Perfluorohexanoic acid (PFHxA)	NS	NS	NS	ppb			NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	NS	NS	NS	ppb			NA	NA	NA
Perfluorooctanoic acid (PFOA)				ppb	0.155 JB	0.224 B			
	NS	NS	NS		OLIDO JD	0.227 D	NA	NA	NA
1H,1H,2H,2H-Perfluorooctanesulfonic	NS	NS	NS	ppb			NA	NA	NA
Perfluorononanoic acid (PFNA)	NS	NS	NS	ppb			NA	NA	NA
Perfluoroundecanoic acid (PFUnA)	NS	NS	NS	ppb			NA	NA	NA
Perfluorooctanesulfonic acid (PFOS)	NS	NS		ppb			NA	NA	NA
Perfluorodecanesulfonic acid (PFDS)	NS	NS	NS	ppb			NA	NA	NA
Perfluorooctane Sulfonamide (FOSA)	NS	NS		ppb			NA	NA	NA
Perfluorotridecanoic acid (PFTrDA)	NS	NS		ppb			NA	NA	NA
Perfluorotetradecanoic acid (PFTA)	NS	NS	NS	ppb			NA	NA	NA

Oak Mitsui 80 First St, Hoosick Falls, NY Site Characterization and IRM\* Soil Sample Results

DETECTED COMPOUNDS ONLY (\*IRM samples exhibiting SCO exceedances within soil left in place)

				Area	AOC 11 (Arse	nic Lamella Pit)	A	OC 12 (Area of B-21/C	-5)
				Date	12/5/2017	12/5/2017	9/12/2017	12/1/2017	12/1/2017
		L	ocation &	Depth	B113 (12')	S150 (8'· 12')	S154 (1'-2')	S155A (1'-2')	S156A (1'-2')
Parameter	Part 375 Protection of Groundwater SCO	Part 375 Industrial SCO	Part 375 Comm. SCO	Units					
Perfluorobutanesulfonic acid (PFBS)	NS	NS	NS	ppb			NA	NA	NA
N-Methyl Perfluorooctanesulfonamidoa	NS	NS	NS	ppb			NA	NA	NA
Perfluorohexanesulfonic acid (PFHxS)	NS	NS	NS	ppb			NA	NA	NA
N-Ethyl Perfluorooctanesulfonamidoac	NS	NS	NS	ppb			NA	NA	NA
Perfluroheptanesulfonic Acid (PFHpS)	NS	NS	NS	ppb			NA	NA	NA
1H,1H,2H,2H-Perfluorodecanesulfonic	NS	NS	NS	ppb			NA	NA	NA
Perfluorododecanoic Acid (PFDoA)	NS	NS	NS	ppb			NA	NA	NA
Perfluorodecanoic acid (PFDA)	NS	NS	NS	ppb			NA	NA	NA

#### NOTES:

SCO - Soil Cleanup Objective

Blue Highlighted Cells Exceed Industrial SCOs

Yellow Highlighted Cells Exceed Commercial SCOs but are less than Industrial SCOs Bold Cells Exceed Protection of Groundwater SCOs

Blank cells indicate parameters that were not detected NS - No SCO Standard established under 6NYCRR Part 375

NA - Not Analyzed

J - Result is less than the RL but greater than or equal to the MDL and the concentri-P - The RPD between the results for the two columns exceeds the method-specified

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ppm- parts per million ppb- parts per billion

Oak Mitsui 80 First St, Hoosick Falls, NY

Site Characterization and IRM\* Soil Sample Results
DETECTED COMPOUNDS ONLY

				A	Ì			( min samples ex	hibiting SCO exceeda		SIDE							
				Area Date		5/23/2018	5/23/2018	5/23/2018	5/22/2018	7/30/2018	5/23/2018	5/23/2018	5/23/2018	5/23/2018	5/23/2018	5/23/2018	5/23/2018	5/23/2018
				Date	5, 22, 2010	5, 25, 2016	5,25,2010	5, 25, 2016	5,22,2010	7,50,2010	5, 25, 2016	5, 25, 2010	5,25,2010	5, 25, 2010	5, 25, 2016	5, 25, 2016	5, 25, 2010	5,25,2010
					SOIL-SC001	SOIL-SC002	SOIL-SC003	SOIL-SC003	SOIL-SC004	SOIL-SC004A	SOIL-SC005	SOIL-SC006	SOIL-SC007	SOIL-DUP-	SOIL-SC009	SOIL-SC010	SOIL-SC014	SOIL-SC014
			Location	& Depth		(12'-16')	(4'-8')	(12'-15')	(4'-8')	(4'-8')	(12'-13')	(12'-13')	(8'-12')	SC001	(10'-12')	(12'-13')	(4'-5')	(13'-14')
	Part 375			1		( )	()	()			( )		(° /			( )		(
	Protection of	Part 375	Part 37	5														
		Industrial																
Parameter	SCO	SCO	SCO	Units														
Volatile Organic Compounds (VC	DCs)																	
1,2,3-Trichlorobenzene	NS			S ppm	0.19 UJ					NA	NA	NA				NA	NA	NA
1,2,4-Trichlorobenzene	3.6	NS		S ppm	0.16 UJ					NA	NA	NA				NA	NA	NA
1,2-Dichlorobenzene	1.1	1,000		0 ppm	0.14 UJ					NA	NA	NA				NA	NA	NA
1,3-Dichlorobenzene	2.4	560		0 ppm	0.17 UJ					NA	NA	NA				NA	NA	NA
1,4-Dichlorobenzene	1.8	250		0 ppm	0.14 UJ					NA	NA	NA				NA	NA	NA
2-Butanone	0.12	N:		S ppm			0.0002.1	0.022	0.0052.1	NA	NA	NA				NA	NA	NA
Acetone	0.05	1,000 89		0 ppm			0.0083 J	0.032	0.0052 J	NA NA	NA	NA				NA NA	NA NA	NA NA
Benzene Bromomethane	0.06 NS	89 NS		4 ppm S ppm						NA NA	NA NA	NA NA		+	+	NA	NA NA	NA NA
Carbon disulfide	NS	N		S ppm						NA NA	NA	NA NA				NA	NA NA	NA NA
Chloroform	0.37	700		0 ppm						NA	NA	NA				NA	NA	NA
Cyclohexane	NS			S ppm	1			0.00047 J	0.00073 J	NA	NA	NA		1	1	NA	NA	NA
Ethylbenzene	1	780		0 ppm						NA	NA	NA				NA	NA	NA
Isopropylbenzene	NS	N		S ppm						NA	NA	NA				NA	NA	NA
Methyl cyclohexane	NS	N		S ppm						NA	NA	NA				NA	NA	NA
Methyl ethyl ketone	0.12	1,000		0 ppm				0.0071 J		NA	NA	NA				NA	NA	NA
Styrene	NA	NA		A ppm						NA	NA	NA				NA	NA	NA
Toluene	0.7	1,000		0 ppm			0.00022 J			NA	NA	NA				NA	NA	NA
o-Xylene	NS	NS		S ppm						NA	NA	NA				NA	NA	NA
p/m-Xylene	NS	N	S N	S ppm						NA	NA	NA				NA	NA	NA
Semivolatile Organic Compound			-	-	ř	1	1	1	1	1	1	1	1	1	1	•		
2,4-Dimethylphenol	NS			S ppm			NA	NA		NA	NA	NA				NA	NA	NA
2-Methylnaphthalene	NS	N		S ppm			NA	NA	0.27	NA	NA	NA				NA	NA	NA
2-Methylphenol	0.33	N		S ppm			NA	NA		NA	NA	NA				NA	NA	NA
3,3'-Dichlorobenzidine 3-Methylphenol/4-Methylphenol	NS 0.33	NS NS		S ppm S ppm			NA NA	NA NA	0.029 J	NA NA	NA NA	NA NA				NA NA	NA NA	NA NA
4-Chloroaniline	0.33 NS	N		S ppm			NA	NA NA	0.029 J	NA	NA	NA				NA	NA NA	NA
Acenaphthene	98	1,000		0 ppm			NA	NA	0.15	NA	NA	NA				NA	NA	NA
Acenapthylene	107	1,000		0 ppm			NA	NA	0.18	NA	NA	NA		1		NA	NA	NA
Anthracene	1,000		50	0 ppm			NA	NA	0.53	NA	NA	NA			1	NA	NA	NA
Benzo(a)anthracene	1	11		6 ppm		0.059 J	NA	NA	1.5	NA	NA	NA		0.062 J		NA	NA	NA
Benzo(a)pyrene	22	1.1		1 ppm		0.06 J	NA	NA	1.7	NA	NA	NA		0.091 J		NA	NA	NA
Benzo(b)fluoranthene	1.7	11	. 5.	6 ppm		0.075 J	NA	NA	2.4	NA	NA	NA		0.12		NA	NA	NA
Benzo(g,h,i)perylene	1,000	1,000		0 ppm		0.048 J	NA	NA	1.2	NA	NA	NA		0.071 J		NA	NA	NA
Benzo(k)fluoranthene	1.7			6 ppm		0.031 J	NA	NA	7.4	NA	NA	NA		0.03 J		NA	NA	NA
Biphenyl	NS			S ppm			NA	NA	0.05 J	NA	NA	NA				NA	NA	NA
Carbazole	NS	N		S ppm			NA	NA	0.25	NA	NA	NA				NA	NA	NA
Chrysene	1	110		6 ppm		0.058 J	NA	NA	1.7	NA	NA	NA		0.059 J		NA	NA	NA
Dibenzo(a,h)anthracene	1,000	1.1		6 ppm			NA	NA	0.31	NA	NA	NA			+	NA	NA	NA
Dibenzofuran	210			0 ppm			NA	NA	0.18	NA	NA	NA		0.000.1		NA	NA	NA NA
Fluoranthene Fluorene	1,000 386	1,000 1,000		0 ppm 0 ppm		0.092 J	NA NA	NA NA	3.2 0.19	NA NA	NA NA	NA NA		0.068 J		NA NA	NA NA	NA NA
Hexachlorocyclopentadiene	NS	1,000 NS		S ppm			NA	NA NA	0.19	NA NA	NA	NA				NA	NA NA	NA
Indeno(1,2,3-cd)pyrene	8.2	11		6 ppm		0.044 J	NA	NA NA	1.2	NA	NA	NA		0.076 J		NA	NA NA	NA
Naphthalene	12			0 ppm		0.0115	NA	NA	0.28	NA	NA	NA		0.070 J		NA	NA	NA
Phenanthrene	1,000			0 ppm		0.072 J	NA	NA	2.3	NA	NA	NA		0.033 J	1	NA	NA	NA
Phenol	0.33			0 ppm			NA	NA		NA	NA	NA				NA	NA	NA
Pyrene	1,000			0 ppm		0.08 J	NA	NA	2.9	NA	NA	NA		0.059 J		NA	NA	NA

Oak Mitsui 80 First St, Hoosick Falls, NY

### Site Characterization and IRM\* Soil Sample Results

DETECTED COMPOUNDS ONLY

				<b>A</b>				(	Inditing SCO exceeda									
				Area		E (22 (2010	E (22 / 2010	E (22 / 2010	E (22 (2010	EAST		E (22 /2010	E /22 /2010	E (22 / 2010	E (22 (2010	E (22 / 2010	F (22 /2010	E (22 (2010
				Date	5/22/2018	5/23/2018	5/23/2018	5/23/2018	5/22/2018	7/30/2018	5/23/2018	5/23/2018	5/23/2018	5/23/2018	5/23/2018	5/23/2018	5/23/2018	5/23/2018
					SOIL-SC001	SOIL-SC002	SOIL-SC003	SOIL-SC003	SOIL-SC004	SOIL-SC004A	SOIL-SC005	SOIL-SC006	SOIL-SC007	SOIL-DUP-	SOIL-SC009	SOIL-SC010	SOIL-SC014	SOIL-SC014
		L	Location 8	& Depth	(6'-8')	(12'-16')	(4'-8')	(12'-15')	(4'-8')	(4'-8')	(12'-13')	(12'-13')	(8'-12')	SC001	(10'-12')	(12'-13')	(4'-5')	(13'-14')
	Part 375																	
	Protection of	Part 375																
Parameter	Groundwater SCO	Industrial SCO	Comm. SCO	Units														
	300	300	300	Units														
PCBs	1	1	-			1		1	1	1	r	1		1	1	1	•	
Aroclor 1254	NS			S ppm			NA	NA		NA	NA	NA				NA	NA	NA
Aroclor 1260	NS			S ppm			NA	NA	0.016 JN	NA	NA	NA				NA	NA	NA
Total PCBs	3.2	25	1 1	1 ppm			NA	NA	0.016	NA	NA	NA				NA	NA	NA
Pesticides	1	1	-		-	1		1		1	r	1		1	1	1	•	
4,4'-DDT	136			7 ppm			NA	NA		NA	NA	NA				NA	NA	NA
delta-BHC	0.25			) ppm			NA	NA		NA	NA	NA				NA	NA	NA
Dieldrin	0.1			4 ppm	ļ		NA	NA		NA	NA	NA				NA	NA	NA
Endosulfan II Endosulfan sulfate	102			) ppm			NA	NA		NA	NA	NA				NA	NA	NA
	1,000 NS			0 ppm 5 ppm			NA NA	NA NA		NA NA	NA NA	NA NA				NA NA	NA NA	NA NA
Heptachlor epoxide				ol hhui			INA		I		INA NA				I	I NA		
Metals	1	1	-1		_			1	1	1		1 '			1			
Aluminum	NS			S ppm	9170	7380	6360 J	6210	4270	NA	4780	6830	10800	11400	10000	9120	10100	7540
Antimony	NS 16			S ppm	F F2	0.915 J	0.445	5.51	5.55	NA	10.2	5	4 25	4.04	2.0	2.54	25.4	01.0
Arsenic	16			6 ppm 0 ppm	5.52 50.4 J	3.65 47.2	3.95 35.9	6.46 34.5	<b>40.8</b> 87.7 J	<b>21.9</b> NA	10.2 30.7	7.5	4.35	4.84 51.4	3.9 37.6	3.54 28.6	<b>125</b> 45.4	<b>91.2</b> 33.8
Barium	820			) ppm ) ppm	0.309 J	47.2 0.145 J	0.188 J	0.158 J	0.242 J	NA	0.141 J	0.207 J	52.4 0.271 J	0.303 J	0.252 J	0.198 J	45.4 0.162 J	0.041 J
Beryllium Cadmium	7.5			3 ppm	0.309 J	0.145 J	0.100 J	0.156 J	4.21	NA	0.141 J	0.207 J	0.271 J	0.303 J	0.252 J	0.198 J 0.162 J	0.182 J 0.694 J	0.041 J
Calcium	NS			S ppm	1380 J	1380 J-	1460 J-	1640 J-	3370 J	NA	1040 J-	2250 J-	908 J-	769 J-	846 J-	634 J-	2810 J-	678 J-
Chromium, hexavalent	19			) ppm	1500 5	1500 5	1100 5	1010 5	5570 5	NA	1010 5	2250 5	500 5	/05/5	010 5	0515	2010 5	0/0 5
Chromium, trivalent	NS			) ppm						NA								
Total Chromium	NS			S ppm	9.52	9.18	24.3	19.5	22.8	NA	17.1	10.5	10.5	10.9	9.74	10.5	77.3	11.5
Cobalt	NS			S ppm	10	7.66	5.74	7.31	15.9	NA	14.7	7.83	10.1	10.9	9.75	8.52	6.57	5.37
Copper	1,720			) ppm	15.2	139	103	163	187	NA	69.1	154	18.9	21.4	209	606	1870	392
Total Cyanide	40			7 ppm	0.23 UJ	0.21 UJ	NA	NA	0.27 J-	NA	NS	NS	0.25 UJ	0.24 UJ	0.25 UJ	NS	NS	NS
Iron	NS	NS	5 NS	S ppm	20200 J	19300	42100	65000	197000 J	NA	108000	19300	21700	22700	21100	19300	32000	21300
Lead	450	3,900	1,000	0 ppm	10.3	13	53.1	57.7	292	NA	10.4	90.3	8.45	9.09	7.97	10.4	25	5.56
Magnesium	NS			S ppm	3880 J	3000 J-	1070 J-	2060 J-	1120 J	NA	2240 J-	2670 J-	3710 J-	3800 J-	3400 J-	3260 J-	3300 J-	2910 J-
Manganese	2,000			) ppm	822 J	667 J	1020 J	480 J	1690 J	NA	927 J	414 J	574 J	644 J	532 J	396 J	196 J	161 J
Mercury	0.73			8 ppm	0.02 J+	0.056 J	0.095 J	0.897 J	3.75 J+	NA	0.027 J			0.018 J	0.016 J		0.051 J	
Nickel	130			) ppm	17	12.9	11.2	14.8	42.4	NA	21.2	14.1	17.2	18	17.1	17.5	15.9	12
Potassium	NS			S ppm	521	522	574	505	416	NA	539	480	700	801	582	564	1450	505
Selenium	4	6,800		0 ppm	0.508 J	0.556 J	1.27 J	1.2 J	6.29	NA	1.85	0.647 J	0.655 J	0.277 J	0.654 J	0.655 J	0.901 J	0.625 J
Silver	8.3			0 ppm	25.0.3	100.1	100.1	101.1	110.7	NA		70.6.1	F2 4 1	<u> </u>	40.0.7	(0.1.1		170
Sodium	NS			S ppm	25.8 J	100 J 0.269 UJ	109 J 0.27 UJ	101 J 0.263 UJ	113 J 3.08	NA	86.5 J 0.277 UJ	78.6 J	52.1 J	60.8 J	49.6 J 0.294 UJ	69.1 J 0.283 UJ	637 0.284 UJ	173
Thallium Vanadium	NS NS			S ppm S ppm	8.53	0.269 UJ 7.94	0.27 UJ 28.9	0.263 UJ 18.4	50.2	NA NA	0.277 UJ 30.1	0.283 UJ 8.73	0.295 UJ 10.5	0.281 UJ 11.2	9.66	0.283 UJ 8.73	0.284 UJ 16.5	0.259 UJ 9.42
Zinc	2,480				53.7	44.1	59.1	64.5	191	NA NA	55.2	8.73	59.2	61.6	58.7	65.1	61.6	38.6
PFAS	2,400	10,000	10,000		55.7	1 77.1	55.1	I 07.5	1 191		55.2	102	57.2	01.0	1 30.7	05.1	01.0	50.0
Perfluorobutonic acid (PFBA)	NS	NS		S ppb			NA	NA			NA	NA			1	NA	NA	NA
Perfluoropentanoic acid (PFPeA)	NS			S ppb			NA	NA NA			NA	NA				NA	NA NA	NA
Perfluorohexanoic acid (PFHxA)	NS			S ppb			NA	NA		0.182 J	NA	NA				NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	NS			S ppb			NA	NA	0.287 J	0.319 J	NA	NA				NA	NA	NA
Perfluorooctanoic acid (PFOA)	NS			S ppb	0.678 J	1.71	NA	NA	33.7	1.03 J	NA	NA			0.053 J	NA	NA	NA
1H,1H,2H,2H-Perfluorooctanesulfonic				S ppb	0.070 5	0.551 JU	NA	NA			NA	NA	0.33 JU	1.19	0.253 JU	NA	NA	NA
Perfluorononanoic acid (PFNA)	NS NS			S ppb		5.002.50	NA	NA			NA	NA				NA	NA	NA
Perfluoroundecanoic acid (PFUnA)	NS			S ppb			NA	NA			NA	NA				NA	NA	NA
Perfluorooctanesulfonic acid (PFOS)	NS			S ppb			NA	NA	0.629 J		NA	NA				NA	NA	NA
Perfluorodecanesulfonic acid (PFDS)	NS			S ppb			NA	NA	0.103 UJ		NA	NA			0.114 UJ	NA	NA	NA
Perfluorooctane Sulfonamide (FOSA)	NS			S ppb			NA	NA	0.109 UJ		NA	NA			0.12 UJ	NA	NA	NA
Perfluorotridecanoic acid (PFTrDA)	NS			S ppb			NA	NA			NA	NA				NA	NA	NA
Perfluorotetradecanoic acid (PFTA)	NS NS			S ppb			NA	NA			NA	NA				NA	NA	NA
	1 113	1 103	1 11			1			1	1				1	I			

Oak Mitsui 80 First St, Hoosick Falls, NY

### Site Characterization and IRM\* Soil Sample Results DETECTED COMPOUNDS ONLY

(\*IRM samples exhibiting SCO exceedances within soil left in place)

				Area						EAST	SIDE							
				Date	5/22/2018	5/23/2018	5/23/2018	5/23/2018	5/22/2018	7/30/2018	5/23/2018	5/23/2018	5/23/2018	5/23/2018	5/23/2018	5/23/2018	5/23/2018	5/23/2018
		L	ocation 8	& Depth	SOIL-SC001 (6'-8')	SOIL-SC002 (12'-16')	SOIL-SC003 (4'-8')	SOIL-SC003 (12'-15')	SOIL-SC004 (4'-8')	SOIL-SC004A (4'-8')	SOIL-SC005 (12'-13')	SOIL-SC006 (12'-13')	SOIL-SC007 (8'-12')	SOIL-DUP- SC001	SOIL-SC009 (10'-12')	SOIL-SC010 (12'-13')	SOIL-SC014 (4'-5')	SOIL-SC014 (13'-14')
	Part 375																	
	Protection of																	
	Groundwater	Industrial	Comm.															
Parameter	SCO	SCO	SCO	Units														
Perfluorobutanesulfonic acid (PFBS)	NS	NS	NS	ppb			NA	NA			NA	NA				NA	NA	NA
N-Methyl Perfluorooctanesulfonamidoa	NS	NS	NS	ppb			NA	NA			NA	NA				NA	NA	NA
Perfluorohexanesulfonic acid (PFHxS)	NS	NS	NS	ppb			NA	NA			NA	NA				NA	NA	NA
N-Ethyl Perfluorooctanesulfonamidoac	NS	NS	NS	ppb			NA	NA			NA	NA				NA	NA	NA
Perfluroheptanesulfonic Acid (PFHpS)	NS	NS	NS	ppb			NA	NA			NA	NA				NA	NA	NA
1H,1H,2H,2H-Perfluorodecanesulfonic	NS	NS	NS	; ppb			NA	NA			NA	NA				NA	NA	NA
Perfluorododecanoic Acid (PFDoA)	NS	NS	NS	ppb			NA	NA			NA	NA				NA	NA	NA
Perfluorodecanoic acid (PFDA)	NS	NS	NS	ppb			NA	NA			NA	NA				NA	NA	NA

NOTES:

SCO - Soil Cleanup Objective

Blue Highlighted Cells Exceed Industrial SCOs

Yellow Highlighted Cells Exceed Commercial SCOs but are less than Industrial SCOs Bold Cells Exceed Protection of Groundwater SCOs

Blank cells indicate parameters that were not detected

NS - No SCO Standard established under 6NYCRR Part 375

NA - Not Analyzed

J - Result is less than the RL but greater than or equal to the MDL and the concentration

P - The RPD between the results for the two columns exceeds the method-specified

I - The lower value for the two columns has been reported due to obvious interferer

B - Compound also detected in the method blank

vs - Reported analyte concentrations are below 0.2 ppm and may be bias

ppm- parts per million

ppb- parts per billion

# TABLE 6 Oak Mitsui 80 First St, Hoosick Falls, NY Site Characterization and IRM\* Soil Sample Results DETECTED COMPOUNDS ONLY

				Area				EAST SIDE					
				Date	5/22/2018	5/22/2018	5/22/2018	7/30/2018	7/30/2018	7/30/2018	7/30/2018	7/30/2018	7/30/2018
		L	ocation 8	Depth	SOIL-SC016 (8'-11')	SOIL-SC029 (8'-12')	SOIL-SC030 (8'-12')	SOIL-SC031 (4'-8')	SOIL-SC032 (4'-8')	SOIL-DUP104 (4'-8')	SOIL-SC033 (4'-8')	SOIL-SC034 (4'-8')	SOIL-SC035 (4'-8')
	Part 375												
	Protection of	Part 375											
	Groundwater	Industrial	Comm.										
Parameter	SCO	SCO	SCO	Units									
Volatile Organic Compounds (VO													
1,2,3-Trichlorobenzene	NS				NA	NA		NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	3.6				NA	NA		NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	1.1		500		NA	NA		NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	2.4		280		NA	NA		NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	1.8		130		NA	NA		NA	NA	NA	NA	NA	NA
2-Butanone	0.12				NA	NA		NA	NA	NA	NA	NA	NA
Acetone	0.05		500		NA	NA		NA	NA	NA	NA	NA	NA
Benzene	0.06		44		NA	NA		NA	NA	NA	NA	NA	NA
Bromomethane	NS				NA	NA		NA	NA	NA	NA	NA	NA
Carbon disulfide	NS 0.27				NA	NA		NA	NA	NA	NA	NA	NA
Chloroform	0.37		350		NA	NA		NA	NA	NA	NA	NA	NA
Cyclohexane	NS				NA	NA		NA	NA	NA	NA	NA	NA
Ethylbenzene	1	780	390		NA	NA		NA	NA	NA	NA	NA	NA
Isopropylbenzene	NS NS				NA	NA		NA	NA	NA	NA	NA	NA
Methyl cyclohexane	0.12		5 NS		NA	NA		NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	0.12 NA	,			NA	NA		NA	NA	NA	NA	NA	NA
Styrene Toluene	0.7		NA 500		NA NA	NA		NA	NA	NA	NA	NA NA	NA
	0.7 NS				NA NA	NA		NA	NA NA	NA	NA	NA NA	NA
o-Xylene p/m-Xylene	NS				NA NA	NA NA		NA NA	NA NA	NA NA	NA NA	NA	NA NA
				ppm	NA	INA				INA	INA		INA
Semivolatile Organic Compounds					NA	NA					NA	L NA	<b>NIA</b>
2,4-Dimethylphenol	NS				NA	NA		NA	NA	NA	NA	NA	NA
2-Methylnaphthalene 2-Methylphenol	NS 0.33				NA NA	NA NA		NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
3,3'-Dichlorobenzidine	0.33 NS				NA NA				NA NA			NA NA	NA NA
3-Methylphenol/4-Methylphenol	0.33		_		NA NA	NA NA		NA NA	NA NA	NA NA	NA NA	NA	NA
4-Chloroaniline	0.33 NS				NA NA	NA		NA	NA	NA	NA	NA	NA
Acenaphthene	98		500		NA	NA		NA	NA	NA	NA	NA	NA
Acenapthylene	107	1,000	500		NA	NA		NA	NA	NA	NA	NA	NA
Anthracene	1,000	,	500		NA	NA		NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	1,000			ppm	NA	NA		NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	22		5.0	ppm	NA	NA		NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	1.7		5.6		NA	NA		NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	1,000		500		NA	NA		NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1.7		56		NA	NA		NA	NA	NA	NA	NA	NA
Biphenyl	NS		_		NA	NA		NA	NA	NA	NA	NA	NA
Carbazole	NS				NA	NA		NA	NA	NA	NA	NA	NA
Chrysene	1	110	56		NA	NA		NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	1,000		0.56		NA	NA		NA	NA	NA	NA	NA	NA
Dibenzofuran	210		350		NA	NA		NA	NA	NA	NA	NA	NA
Fluoranthene	1,000		500		NA	NA		NA	NA	NA	NA	NA	NA
Fluorene	386		500		NA	NA		NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	NS				NA	NA		NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	8.2		5.6		NA	NA		NA	NA	NA	NA	NA	NA
Naphthalene	12	1,000	500	ppm	NA	NA		NA	NA	NA	NA	NA	NA
Phenanthrene	1,000	1,000	500	ppm	NA	NA		NA	NA	NA	NA	NA	NA
Phenol	0.33		500	ppm	NA	NA		NA	NA	NA	NA	NA	NA
Pyrene	1,000	1,000	500	ppm	NA	NA		NA	NA	NA	NA	NA	NA

# TABLE 6 Oak Mitsui 80 First St, Hoosick Falls, NY Site Characterization and IRM\* Soil Sample Results DETECTED COMPOUNDS ONLY

				Area				AST SIDE					
				Date	5/22/2018	5/22/2018	5/22/2018	7/30/2018	7/30/2018	7/30/2018	7/30/2018	7/30/2018	7/30/2018
		L	ocation 8	Depth	SOIL-SC016 (8'-11')	SOIL-SC029 (8'-12')	SOIL-SC030 (8'-12')	SOIL-SC031 (4'-8')	SOIL-SC032 (4'-8')	SOIL-DUP104 (4'-8')	SOIL-SC033 (4'-8')	SOIL-SC034 (4'-8')	SOIL-SC035 (4'-8')
	Part 375 Protection of Groundwater	Industrial	Part 375 Comm.										
Parameter	SCO	SCO	SCO	Units									
PCBs													
Aroclor 1254	NS			ppm	NA	NA		NA	NA	NA	NA	NA	NA
Aroclor 1260	NS		NS	_	NA	NA		NA	NA	NA	NA	NA	NA
Total PCBs	3.2	25	1	ppm	NA	NA		NA	NA	NA	NA	NA	NA
Pesticides													
4,4'-DDT	136			ppm	NA	NA		NA	NA	NA	NA	NA	NA
delta-BHC	0.25	1,000		ppm	NA	NA		NA	NA	NA	NA	NA	NA
Dieldrin	0.1	2.8	1.4		NA	NA		NA	NA	NA	NA	NA	NA
Endosulfan II	102			ppm	NA	NA		NA	NA	NA	NA	NA	NA
Endosulfan sulfate	1,000	920		ppm	NA	NA		NA	NA	NA	NA	NA	NA
Heptachlor epoxide	NS	NS	NS	ppm	NA	NA		NA	NA	NA	NA	NA	NA
Metals													
Aluminum	NS	NS	NS	ppm	8730	8120	6340	NA	NA	NA	NA	NA	NA
Antimony	NS			ppm				NA	NA	NA	NA	NA	NA
Arsenic	16	16	16		4.91	4.88	7.5	14.6	5.04 J	7.35 J	9.5	5.21	14.6
Barium	820	10,000	400	ppm	28.8 J	26.3 J	98.9 J	NA	NA	NA	NA	NA	NA
Beryllium	47	2,700	590	ppm	0.242 J	0.196 J	0.236 J	NA	NA	NA	NA	NA	NA
Cadmium	7.5	60	9.3	ppm	0.344 J	0.434 J	0.481 J	NA	NA	NA	NA	NA	NA
Calcium	NS	NS	NS	ppm	1030 J	719 J	1090 J	NA	NA	NA	NA	NA	NA
Chromium, hexavalent	19	NS	400	ppm				NA	NA	NA	NA	NA	NA
Chromium, trivalent	NS		1,500	ppm				NA	NA	NA	NA	NA	NA
Total Chromium	NS				9.64	7.1	9.05	NA	NA	NA	NA	NA	NA
Cobalt	NS				6	7.95	8.14	NA	NA	NA	NA	NA	NA
Copper	1,720			ppm	13.1	12.2	22.9	NA	NA	NA	NA	NA	NA
Total Cyanide	40	,	27		NS	NS	0.21 UJ	NA	NA	NA	NA	NA	NA
Iron	NS				14200 J	20000 J	18600 J	NA	NA	NA	NA	NA	NA
Lead	450		1,000		8.31	17.7	22.4	NA	NA	NA	NA	NA	NA
Magnesium	NS				3600 J	3620 J	3090 J	NA	NA	NA	NA	NA	NA
Manganese	2,000	10,000	10,000		154 J	547 J	1440 J	NA	NA	NA	NA	NA	NA
Mercury	0.73	5.7		ppm	12.0			NA	NA	NA	NA	NA	NA
Nickel	130			ppm	13.8	15.4	14	NA	NA	NA	NA	NA	NA
Potassium	NS				628	367	306	NA	NA	NA	NA	NA	NA
Selenium	4	6,800		ppm	0.558 J	0.655 J	0.365 J	NA	NA	NA	NA	NA	NA
Silver	8.3			ppm	102.3	22.0.1	22.0.1	NA	NA	NA	NA	NA	NA
Sodium	NS				102 J	23.9 J	33.9 J	NA	NA	NA	NA	NA	NA
Thallium	NS				10.2	6 70	1.32 J	NA	NA	NA	NA	NA	NA
Vanadium	NS 2,480		NS 10,000		10.2 49.2	6.78 50.8	5.55 38.5	NA NA	NA NA	NA NA	NA NA	NA NA	NA
Zinc	2,480	10,000	10,000	ppm	49.2	50.8	38.5		NA	NA	INA	NA NA	NA
PFAS				L				1				1	
Perfluorobutonic acid (PFBA)	NS				NA	NA	0.012.1						
Perfluoropentanoic acid (PFPeA)	NS				NA	NA	0.012 J				A 1 1 A 3		0.000 7
Perfluorohexanoic acid (PFHxA)	NS				NA	NA		0.141.7	0 104 3	0.000 3	0.148 J		0.088 J
Perfluoroheptanoic acid (PFHpA)	NS				NA	NA		0.141 J	0.134 J	0.086 J	0.167 J	0.075	0.096 J
Perfluorooctanoic acid (PFOA)	NS				NA	NA	0.159 J	20.4	5.76	6.05	1.66	0.278 J	5.98
1H,1H,2H,2H-Perfluorooctanesulfonic	NS				NA	NA				0.344 J			0.764 J
Perfluorononanoic acid (PFNA)	NS				NA	NA				0.09 J			0.212 J
Perfluoroundecanoic acid (PFUnA)	NS				NA	NA							0.196 J
Perfluorooctanesulfonic acid (PFOS)	NS				NA	NA							0.145 J
Perfluorodecanesulfonic acid (PFDS)	NS				NA	NA						0.1 UJ	
Perfluorooctane Sulfonamide (FOSA)	NS				NA	NA						0.105 UJ	
	NS	NS	NS	ppb	NA	NA							
Perfluorotridecanoic acid (PFTrDA) Perfluorotetradecanoic acid (PFTA)	NS				NA								

### TABLE 6 Oak Mitsui 80 First St, Hoosick Falls, NY Site Characterization and IRM\* Soil Sample Results DETECTED COMPOUNDS ONLY

(\*IRM samples exhibiting SCO exceedances within soil left in place)

				Area			E	AST SIDE					
				Date	5/22/2018	5/22/2018	5/22/2018	7/30/2018	7/30/2018	7/30/2018	7/30/2018	7/30/2018	7/30/2018
		L	ocation &	Depth	SOIL-SC016 (8'-11')	SOIL-SC029 (8'-12')	SOIL-SC030 (8'-12')	SOIL-SC031 (4'-8')	SOIL-SC032 (4'-8')	SOIL-DUP104 (4'-8')	SOIL-SC033 (4'-8')	SOIL-SC034 (4'-8')	SOIL-SC035 (4'-8')
	Part 375												
	Protection of	Part 375											
	Groundwater	Industrial	Comm.										
Parameter	sco	SCO	SCO	Units									
Perfluorobutanesulfonic acid (PFBS)	NS	NS	NS	ppb	NA	NA							
N-Methyl Perfluorooctanesulfonamidoa	NS	NS	NS	ppb	NA	NA							
Perfluorohexanesulfonic acid (PFHxS)	NS	NS	NS	ppb	NA	NA							
N-Ethyl Perfluorooctanesulfonamidoac	NS	NS	NS	ppb	NA	NA							
Perfluroheptanesulfonic Acid (PFHpS)	NS	NS	NS	ppb	NA	NA							
1H,1H,2H,2H-Perfluorodecanesulfonic	NS	NS	NS	ppb	NA	NA							
Perfluorododecanoic Acid (PFDoA)	NS	NS	NS	ppb	NA	NA							
Perfluorodecanoic acid (PFDA)	NS	NS	NS	ppb	NA	NA							

### NOTES:

SCO - Soil Cleanup Objective

Blue Highlighted Cells Exceed Industrial SCOs

Yellow Highlighted Cells Exceed Commercial SCOs but are less than Industrial SCOs Bold Cells Exceed Protection of Groundwater SCOs

Blank cells indicate parameters that were not detected

NS - No SCO Standard established under 6NYCRR Part 375

NA - Not Analyzed

 ${\tt J}$  - Result is less than the RL but greater than or equal to the MDL and the concentr

P - The RPD between the results for the two columns exceeds the method-specified

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B - Compound also detected in the method blank

vs - Reported analyte concentrations are below 0.2 ppm and may be bias

ppm- parts per million

ppb- parts per billion

Oak Mitsui 80 First St, Hoosick Falls, NY

### Site Characterization and IRM\* Soil Sample Results

DETECTED COMPOUNDS ONLY

				Area				imples exhibiting SCO ex			ST SIDE					
				Date	5/22/2018	5/22/2018	5/21/2018	5/21/2018	5/21/2018	5/21/2018	5/21/2018	5/21/2018	5/21/2018	5/21/2018	5/21/2018	5/21/2018
				Dute	0, 22, 2010	0, 12, 2010	5, 21, 2010	5/21/2010	0, 11, 2010	0, 11, 2010	0,21,2010	0, 11, 2010	0, 11, 2010	0, 21, 2010	0,21,2010	0,21,2010
				Danth	SOIL-SC020	SOIL-DUP- SC002		SOIL-SC021A (8'-	SOIL-SC022	SOIL-SC023	SOIL-SC024	SOIL-SC024A	SOIL-SC025	SOIL-SC026	SOIL-SC027	SOIL-SC028
	Part 375		Location 8	Depth	(8'-12')	5002	(8'-10')	10')	(8'-12')	(12'-13')	(8'-10')	(8'-10')	(8'-12')	(7'-8')	(8'-12')	(8'-12')
	Protection of	Part 375	Part 375													
	Groundwater	Industrial														
Parameter	sco	sco	sco	Units												
Volatile Organic Compounds (VO								1 1						I	l	
1,2,3-Trichlorobenzene	NS	N		ppm				1 1						1	1	
1,2,4-Trichlorobenzene	3.6			ppm												
1,2-Dichlorobenzene	1.1			ppm												
1,3-Dichlorobenzene	2.4			ppm												
1,4-Dichlorobenzene	1.8			ppm												
2-Butanone	0.12			ppm												
Acetone	0.05			ppm				0.003 J	0.0024 J		0.014		0.0039 J			1
Benzene	0.06			ppm	0.0029	0.058 J	0.67 J+				0.044				l I	
Bromomethane	NS			ppm		0.048 J	0.03 J+									
Carbon disulfide	NS		S NS	ppm												
Chloroform	0.37	700		ppm												
Cyclohexane	NS	NS		ppm	0.00047 J											
Ethylbenzene	1	780		ppm	0.00032 J	0.018 J	5.4 J+				0.00089 J					
Isopropylbenzene	NS			ppm			2.1 J+				0.0003 J			0.02 J		
Methyl cyclohexane	NS			ppm	0.00046 J	0.048 J	1.9 J+			0.44						
Methyl ethyl ketone	0.12			ppm	0.0051 J											
Styrene	NA			ppm	0.00052 J		0.39 J+				0.00083 J					
Toluene	0.7			ppm	0.0016	0.041 J	0.56 J+				0.011		0.00072 J	0.032 J		
o-Xylene	NS			ppm			0.52 J+				0.0015 J					
p/m-Xylene	NS	NS	S NS	ppm	0.00099 J		1.3 J+				0.0041			0.038 J		
Semivolatile Organic Compounds		1						1					1			
2,4-Dimethylphenol	NS			ppm	0.078 J											
2-Methylnaphthalene	NS			ppm	1.4 J	5.7 J				0.093 J	0.027 J					ļ
2-Methylphenol	0.33			ppm	0.15 J	0.28 J				0.028 J						
3,3'-Dichlorobenzidine	NS			ppm												
3-Methylphenol/4-Methylphenol	0.33			ppm	0.57	0.93 J				0.057 J						
4-Chloroaniline	NS			ppm	40.1					0.24	0.070.1					
Acenaphthene	98			ppm	12 J	55 J	7			0.34	0.078 J					
Acenapthylene	107			ppm	8.6 J	27 J	12			0.074 J	0.21					+
Anthracene Ronzo(a)anthraceno	1,000				2.9 J	100 J	58			0.77	0.96	0.062.1		0.021.3		
Benzo(a)anthracene Benzo(a)pyrene	22	11 1.1		ppm ppm	46 J 40 J	150 J 120 J	52 39			<b>2.6</b> 3.9	0.86	0.063 J 0.095 J		0.031 J 0.06 J		+
Benzo(b)fluoranthene	1.7			ppm ppm	40 J 49 J	120 J 150 J	48			3.9 <b>4.1</b>	0.8	0.095 J		0.08 J 0.071 J	+	+
Benzo(g,h,i)perylene	1,000			ppm ppm	23 J	66 J	20			2.6	0.97	0.12 0.084 J		0.071 J	+	+
Benzo(k)fluoranthene	1,000			ppm	15 J	32 J	20 14			1.6	0.42	0.084 J 0.042 J		0.057 5		1
Biphenyl	NS			ppm ppm	0.84 J	4.6 J	15			1.0	0.57	0.072 J				+
Carbazole	NS NS			ppm ppm	3.0 J	11 J	15			0.41	0.12 J					
Chrysene	1	110		ppm	36 J	120 J	42			2.1	0.7	0.061 J		0.03 J		1
Dibenzo(a,h)anthracene	1,000			ppm	4.7 J	1.6 J	4.4			0.72	0.11 J	0.001 9			1	1
Dibenzofuran	210			ppm	5.6 J	29 J	37			0.16 J	0.051 J				1	
Fluoranthene	1,000			ppm	120 J	390 J	150	0.023 J		2.7	2.2	0.079 J		0.038 J	0.024 J	1
Fluorene	386			ppm	12 J	59 J	42			0.24	0.42					1
Hexachlorocyclopentadiene	NS			ppm												1
Indeno(1,2,3-cd)pyrene	8.2			ppm	27 J	77 J	24	0.032 J		3.1	0.51	0.089 J		0.064 J		
Naphthalene	12			ppm	6.1 J	16 J	7.4			0.2	0.22					
Phenanthrene	1,000			ppm	74 J	350 J	5			1.7	0.32	0.037 J				1
Phenol	0.33			ppm	0.49 J	0.78 J				0.038 J					1	1
Pyrene	1,000			ppm	90 J	300 J	110		0.017 J	2.4	1.7	0.076 J			0.024 J	
-	,				I			<u> </u>	I				1	1		

Oak Mitsui 80 First St, Hoosick Falls, NY

### Site Characterization and IRM\* Soil Sample Results

DETECTED COMPOUNDS ONLY

				Area			( 1147 34	amples exhibiting SCO ex	decedances within son		T SIDE					
				Date	5/22/2018	5/22/2018	5/21/2018	5/21/2018	5/21/2018	5/21/2018	5/21/2018	5/21/2018	5/21/2018	5/21/2018	5/21/2018	5/21/2018
			Location &	Depth	SOIL-SC020 (8'-12')	SOIL-DUP- SC002	SOIL-SC021 (8'-10')	SOIL-SC021A (8'- 10')	SOIL-SC022 (8'-12')	SOIL-SC023 (12'-13')	SOIL-SC024 (8'-10')	SOIL-SC024A (8'-10')	SOIL-SC025 (8'-12')	SOIL-SC026 (7'-8')	SOIL-SC027 (8'-12')	SOIL-SC028 (8'-12')
	Part 375															
	Protection of		Part 375													
Devementer	Groundwater SCO	Industria SCO	I Comm. SCO	110:40												
Parameter	sco	SCO	sco	Units												
PCBs		1 .	<u>al va</u> l					1		1		1		[	1	1
Aroclor 1254	NS			ppm												
Aroclor 1260 Total PCBs	NS 3.2			ppm ppm												
Pesticides	5.2		<u>'  + </u>	ppin												
4,4'-DDT	136	94	47	ppm			[	1	[	[				[	1	1
delta-BHC	0.25			ppm												
Dieldrin	0.1	2.8		ppm												
Endosulfan II	102			ppm		0.0185 PIR									1	
Endosulfan sulfate	1,000	920	200	ppm						0.000917 PIR						
Heptachlor epoxide	NS	N	S NS	ppm						0.00155 JR						
Metals																
Aluminum	NS	N		ppm	5150	6710	NA	NA	NA	NA	NA	NA	7680	NA	NA	8760
Antimony	NS			ppm	6.66	7.12	NA	NA	NA	NA	NA	NA		NA	NA	
Arsenic	16			ppm	18.2	20.4	NA	NA	NA	NA	NA	NA	4.49	NA	NA	3.84
Barium	820			ppm	23.9 J	27.9 J	NA	NA	NA	NA	NA	NA	37.9	NA	NA	26.4
Beryllium	47	,		ppm ppm	0.162 J	0.246 J	NA	NA	NA	NA	NA	NA	0.197 J	NA	NA	0.185 J
Cadmium Calcium	7.5 NS			ppm ppm	1.92 J 1290 J	1.33 J 1070 J	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	0.317 J 1020 J-	NA NA	NA NA	0.453 J 660 J-
Chromium, hexavalent	19			ppm	1290 J	1070 J	NA	NA	NA	NA	NA	NA	1020 J-	NA	NA	000 J-
Chromium, trivalent	NS						NA	NA	NA	NA	NA	NA		NA	NA	
Total Chromium	NS			ppm	15.1	15.8	NA	NA	NA	NA	NA	NA	7.54	NA	NA	7.91
Cobalt	NS	N		ppm	8.34	9.24	NA	NA	NA	NA	NA	NA	7.64	NA	NA	5.54
Copper	1,720	10,000		ppm	156 J	76 J	NA	NA	NA	NA	NA	NA	22.2	NA	NA	13.7
Total Cyanide	40	.,		ppm	1.5	7 J-	2.5 UJ		0.22 UJ	0.97 J-	8.3 J-	0.22 UJ	0.22 UJ	0.22 UJ		0.22 UJ
Iron	NS			ppm	79600 J	50100 J	NA	NA	NA	NA	NA	NA	17100	NS	NA	19800
Lead	450				242 J	36.7 J	NA	NA	NA	NA	NA	NA	20.1 J	NA	NA	7.67 J
Magnesium	NS			ppm	1730 J	2610 J	NA	NA	NA	NA	NA	NA	2900	NA	NA	3820
Manganese Mercury	2,000 0.73			ppm ppm	601 J 0.081 J	339 J 0.108 J+	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	784 J 0.021 J	NA NA	NA NA	531 J
Nickel	130		) 310		27.1 J-	18.8 J	NA	NA	NA	NA	NA	NA	12.4	NA	NA	15.6
Potassium	NS			ppm	296	328	NA	NA	NA	NA	NA	NA	596	NA	NA	370
Selenium	4	6,800			1.78	1.95	NA	NA	NA	NA	NA	NA	1.03 J	NA	NA	0.756 J
Silver	8.3						NA	NA	NA	NA	NA	NA		NA	NA	
Sodium	NS	N	S NS	ppm	45 J	50 J	NA	NA	NA	NA	NA	NA	64.8 J	NA	NA	43.2 J
Thallium	NS			ppm	0.383 J		NA	NA	NA	NA	NA	NA	0.985 J	NA	NA	
Vanadium	NS			ppm	9.57	12	NA	NA	NA	NA	NA	NA	6.22	NA	NA	6.88
Zinc	2,480	10,000	10,000	ppm	628 J	150 J	NA	NA	NA	NA	NA	NA	40.7	NA	NA	46.5
PFAS	N.C.			nnh			NIA		NIA	NIA	NIA.	NIA		NIA.	NIA	
Perfluorobutonic acid (PFBA) Perfluoropentanoic acid (PFPeA)	NS NS			ppb ppb			NA	NA	NA	NA	NA	NA		NA	NA	
Perfluoropentanoic acid (PFPeA) Perfluorohexanoic acid (PFHxA)	NS NS			ppb ppb			NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	0.109 J+	NA NA	NA NA	
Perfluoroheptanoic acid (PFHpA)	NS			ppb			NA	NA	NA NA	NA	NA	NA	0.103 JT	NA NA	NA NA	
Perfluorooctanoic acid (PFOA)	NS	1		ppb	0.804 J	0.636 J	NA	NA	NA	NA	NA	NA		NA	NA	1.81
1H,1H,2H,2H-Perfluorooctanesulfonic	NS NS						NA	NA	NA	NA	NA	NA		NA	NA	
Perfluorononanoic acid (PFNA)	NS			ppb			NA	NA	NA	NA	NA	NA		NA	NA	
Perfluoroundecanoic acid (PFUnA)	NS			ppb			NA	NA	NA	NA	NA	NA		NA	NA	
Perfluorooctanesulfonic acid (PFOS)	NS			ppb			NA	NA	NA	NA	NA	NA		NA	NA	
Perfluorodecanesulfonic acid (PFDS)	NS			ppb	0.105 UJ	0.105 UR		NA	NA	NA	NA	NA		NA	NA	0.106 UJ
Perfluorooctane Sulfonamide (FOSA)	NS				0.111 UJ	0.111 UR	NA	NA	NA	NA	NA	NA		NA	NA	0.112 UJ
Perfluorotridecanoic acid (PFTrDA)	NS			ppb	0.067 UJ		NA	NA	NA	NA	NA	NA		NA	NA	
Perfluorotetradecanoic acid (PFTA)	NS	N	s ns	ppb	0.076 UJ		NA	NA	NA	NA	NA	NA		NA	NA	

Oak Mitsui 80 First St, Hoosick Falls, NY

### Site Characterization and IRM\* Soil Sample Results DETECTED COMPOUNDS ONLY

(\*IRM samples exhibiting SCO exceedances within soil left in place)

				Area						WES	T SIDE					
				Date	5/22/2018	5/22/2018	5/21/2018	5/21/2018	5/21/2018	5/21/2018	5/21/2018	5/21/2018	5/21/2018	5/21/2018	5/21/2018	5/21/2018
					SOIL-SC020	SOIL-DUP-	SOIL-SC021	SOIL-SC021A (8'-	SOIL-SC022	SOIL-SC023	SOIL-SC024	SOIL-SC024A	SOIL-SC025	SOIL-SC026	SOIL-SC027	SOIL-SC028
		L	ocation 8	<b>Depth</b>		SC002	(8'-10')	10')	(8'-12')	(12'-13')	(8'-10')	(8'-10')	(8'-12')	(7'-8')	(8'-12')	(8'-12')
	Part 375															
	Protection of	Part 375	Part 375													
	Groundwater	Industrial	Comm.													
Parameter	SCO	SCO	SCO	Units												
Perfluorobutanesulfonic acid (PFBS)	NS	NS	NS	ppb			NA	NA	NA	NA	NA	NA		NA	NA	
N-Methyl Perfluorooctanesulfonamidoa	NS	NS	NS NS	ppb			NA	NA	NA	NA	NA	NA		NA	NA	
Perfluorohexanesulfonic acid (PFHxS)	NS	NS	S NS	ppb			NA	NA	NA	NA	NA	NA		NA	NA	
N-Ethyl Perfluorooctanesulfonamidoac	NS	NS	NS NS	ppb			NA	NA	NA	NA	NA	NA		NA	NA	
Perfluroheptanesulfonic Acid (PFHpS)	NS	NS	S NS	ppb			NA	NA	NA	NA	NA	NA		NA	NA	
1H,1H,2H,2H-Perfluorodecanesulfonic	NS	NS	S NS	ppb			NA	NA	NA	NA	NA	NA		NA	NA	
Perfluorododecanoic Acid (PFDoA)	NS	NS	S NS	ppb			NA	NA	NA	NA	NA	NA		NA	NA	
Perfluorodecanoic acid (PFDA)	NS	NS	S NS	ppb			NA	NA	NA	NA	NA	NA		NA	NA	

#### NOTES:

SCO - Soil Cleanup Objective Blue Highlighted Cells Exceed Industrial SCOs

Yellow Highlighted Cells Exceed Commercial SCOs but are less than Industrial SCOs Bold Cells Exceed Protection of Groundwater SCOs

Blank cells indicate parameters that were not detected NS - No SCO Standard established under 6NYCRR Part 375

NA - Not Analyzed

J - Result is less than the RL but greater than or equal to the MDL and the concentr. P - The RPD between the results for the two columns exceeds the method-specified

I - The lower value for the two columns has been reported due to obvious interferer

B - Compound also detected in the method blank

vs - Reported analyte concentrations are below 0.2 ppm and may be bias

ppm- parts per million ppb- parts per billion

### Table 7 Summary of Calculated Vertical Hydraulic Gradients Former Oak Mitsui, 80 First Street Property



Property								
	VERTIC	CAL HYDRAULIC GRA	DIENTS				7-Jan-2020	
	SCREEN TOP	SCREEN BOTTOM	MIDSCREEN	VERTICAL	GROUND WATER			
WELL	ELEVATION	ELEVATION	ELEVATION	DISTANCE	ELEVATION	HEAD CHANGE	VERTICAL	POTENTIAL FLOW
DESIGNATION	(ft msl)	(ft msl)	(ft msl)	(ft)	(ft msl)	(ft)	GRADIENT (ft/ft)	DIRECTION
FS-MW-001A	417.38	412.38	414.88	24.64	416.34	3.01	0.122	DOWNWARD
FS-MW-008B	392.74	387.74	390.24		413.33			
FS-MW-002A	417.51	412.51	415.01	123.52	415.61	1.59	0.013	DOWNWARD
FS-MW-002C	296.49	286.49	291.49		414.02			
FS-MW-003A	415.10	410.10	412.60	74.80	413.81	0.97	0.013	DOWNWARD
FS-MW-003B	340.30	335.30	337.80		412.84			
FS-MW-005A	416.40	411.40	413.90	31.00	413.42	0.93	0.030	DOWNWARD
FS-MW-005B	385.40	380.40	382.90	37.10	412.49	0.01	0.0003	DOWNWARD
FS-MW-005C	348.30	343.30	345.80		412.48			
FS-MW-007A	416.80	406.80	411.80	40.00	413.45	1.28	0.032	DOWNWARD
FS-MW-007B	376.80	366.80	371.80	22.60	412.17	0.08	0.004	DOWNWARD
FS-MW-007C	351.70	346.70	349.20		412.09			
	440.50	100 50	111.50	02.01	111.00	1.10	0.017	LIDIALA DID
FS-MW-3	419.50	409.50	414.50	83.31	414.28	-1.42	-0.017	UPWARD
FS-MW-009C	333.69	328.69	331.19		415.70			
FS-MW-012A	417.20	412.20	414.70	32.70	412.18	0.06	0.002	DOWNWARD
FS-MW-012R	387.00	377.00	382.00	17.60	412.18	0.08	0.002	DOWNWARD
FS-MW-012D	366.90	361.90	364.40	17.00	412.12	0.27	0.015	DOMINING
10-10100-012C	500.90	501.90	504.40		411.05			
FS-MW-013A	415.40	410.40	412.90	14.80	413.24	0.90	0.061	DOWNWARD
FS-MW-013B	400.60	395.60	398.10		412.34			

Notes: msl - mean sea level ft - feet

### Table 8 Analytical Results for PFAS, Total Organicn Carbon and pH for Groundwater APS Samples Former Oak-Mitsui - First Street



0	)													
	Location ID	FS-APS-001	FS-APS-002	FS-APS-003	FS-APS-003	FS-APS-003	FS-APS-003	FS-APS-004	FS-APS-004	FS-APS-005	FS-APS-005	FS-APS-005	FS-APS-005	FS-APS-006
											FS-APS-			
		FS-APS-001	FS-APS-002	FS-APS-003	FS-APS-DUP1	FS-APS-003	FS-APS-003 (98.9)	FS-APS-004	FS-APS-004 (86.1)	FS-APS-005 (14.7)	005(43.3)(110720	FS-APS-	FS-APS-	FS-APS-006
	Sample ID	(15)(10302018)	(13.9)(10302018)	(14)(10312018)	(10312018)	(86.15)(11012018)	(11012018)	(14.3)(11052018)	(11062018)	(11062018)	18)	005(83.1)(11082018)	DUP2(11082018)	(14.5)(10312018)
	Sample Date	10/30/2018 N	10/30/2018 N	10/31/2018 N	10/31/2018 FD	11/1/2018 N	11/1/2018 N	11/5/2018 N	11/6/2018 N	11/6/2018 N	11/7/2018 N	11/8/2018 N	11/8/2018 FD	10/31/2018 N
,	Sample Type Validated - Y/N	Y	Y	Y	Y	Y	Y	Y	N Y	N Y	Y	Y	Y	Y
	Depth (ft)	15	13.9	14	14	86.15	98.9	14.3	86.1	14.7	43.3	83.1	83.1	14.5
Analyte	Unit													
Per- and Polyfluoroalkyl Substances by USEPA Method 537 Modifie	ed .				•			•						
NEtFOSAA	ng/l	2 U	1.8 U	1.7 U	1.7 U	1.7 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	1.7 U
NMeFOSAA	ng/l	3.2 U	3 U	2.7 U	2.8 U	2.8 U	3 U	3.1 U	2.9 U	3 U	2.9 U	3 U	3 U	2.7 U
Perfluorobutanesulfonic acid (PFBS)	ng/l	6	14	13	13	0.42 J	0.19 U	18	0.6 J	8.8	0.6 J	0.87 J	0.79 J	6.3
Perfluorobutanoic Acid	ng/1	21	8.2	8.3	7.7	9	9.5	46 U	9.4	29	9.1	7.1	7.2	13
Perfluorodecane Sulfonic Acid	ng/l	0.33 U	0.31 U	0.28 U	0.29 U	0.29 U	0.31 U	0.32 U	0.3 U	0.31 U	0.3 U	0.31 U	0.31 U	0.28 U
Perfluorodecanoic acid (PFDA) Perfluorododecanoic acid (PFDoA)	ng/1	0.32 U 0.57 U	0.3 U 0.53 U	0.27 U 0.48 U	0.3 J 0.5 U	0.28 U 0.49 U	0.3 U 0.53 U	0.31 U 0.54 U	0.29 U 0.51 U	0.3 U 0.54 U	0.29 U 0.52 U	0.3 U 0.54 U	0.3 U 0.53 U	0.47 J 0.48 U
Perfluoroheptane Sulfonate (PFHPS)	ng/l ng/l	0.57 U	0.26 J	0.48 U	0.3 U	0.49 U	0.18 U	0.19 U	0.18 U	0.24 J	0.32 U	0.19 U	0.18 U	0.48 U
Perfluoroheptanoic acid (PFHpA)	ng/1	20	19	19	18	130	39	200	73	21	110	62	60	27
Perfluorohexanesulfonic acid (PFHxS)	ng/1	2.4	2	2.2	2.4	0.15 U	0.38 U	2.6 U	0.65 U	2.9 U	0.65 J	0.76 U	0.84 U	12
Perfluorohexanoic acid (PFHxA)	ng/1	20	18	18	16	130	99	110	93	28	100	63	67	26
Perfluorononanoic acid (PFNA)	ng/l	1.1 J	1.8 J	1.8	1.7 J	0.24 U	0.26 U	1.4 J	0.36 J	0.9 J	0.25 U	0.27 J	0.26 U	2.4
Perfluorooctane Sulfonamide (FOSA)	ng/1	0.36 U	0.34 U	0.31 U	0.32 U	0.31 U	0.33 U	0.35 U	0.32 U	0.34 U	0.33 U	0.34 U	0.34 U	0.31 U
Perfluorooctanesulfonic acid (PFOS)	ng/l	4.6 1200 I	10	10 950 I	10 940 I	0.48 U	0.52 U	6.8	0.5 U	12	0.51 U	0.53 U	0.52 U	9.1 850 I
Perfluorooctanoic acid (PFOA) Perfluoropentanoic Acid (PFPeA)	ng/l	1200 J	990 J 14		940 J 13	1700 J 22	590 21	780 J 72	1400 J 19	630 J 23	2500 J	1500 J 13	1500 J 13	850 J 23
Perfluoropentanoic Acid (PFPeA) Perfluorotetradecanoic acid (PFTA)	ng/l ng/l	0.3 U	0.28 U	14 0.26 U	0.27 U	0.26 U	0.28 U	0.29 U	0.3 J	0.29 J	20 0.44 J	0.28 U	0.28 U	0.25 U
Perfluorotridecanoic Acid (PFTrA)	ng/1	1.3 U	1.2 U	1.1 U	1.2 U	1.2 U	1.2 U	1.3 U	1.2 U	1.3 U	1.2 U	1.3 U	1.2 U	1.1 U
Perfluoroundecanoic Acid (PFUnA)	ng/1	1.1 U	1.1 U	0.97 U	1 U	0.98 U	1.1 U	1.1 U	1 U	1.1 U	1 U	1.1 U	1.1 U	0.97 U
SODIUM 1H,1H,2H,2H-PERFLUORODECANE SULFONATE (8:2)	ng/1	2.1 U	1.9 U	1.8 U	1.8 U	1.8 U	1.9 U	2 U	1.9 U	2 U	1.9 U	2 U	1.9 U	1.8 U
SODIUM 1H,1H,2H,2H-PERFLUOROOCTANE SULFONATE (6:2)	ng/l	2.1 U	1.9 U	1.8 U	1.8 U	1.8 U	1.9 U	2.2 J	1.9 U	2 U	1.9 U	2 U	1.9 U	1.8 U
Total Organic Carbon by Lloyd Kahn Method														
Total Organic Carbon	mg/1	3.2	1.7	1.1	1.2	0.44 J	1 U	3.2 J	0.62 J	2.4	0.58 J	0.7 J	0.62 J	1.4
vH By Standard Method 9040														
pH pH	pH units	5.47	7.98	7.06	7.16	7.93	7.9	5.33	8.19	7.69	8.01	8.22	7.93	6.93
					I.			I.	1	1		1 1		6.93
	pH units Location ID	5.47 FS-APS-006	7.98 FS-APS-006	7.06 FS-APS-007	7.16 FS-APS-007	7.93 FS-APS-007	7.9 FS-APS-008	5.33 FS-APS-008	8.19 FS-APS-008	7.69 FS-APS-009	FS-APS-010	8.22 FS-APS-011	7.93 FS-APS-011	6.93
		FS-APS-006	FS-APS-006	FS-APS-007	FS-APS-007	FS-APS-007	FS-APS-008	FS-APS-008	FS-APS-008	FS-APS-009	FS-APS-010 FS-APS-	FS-APS-011	FS-APS-011	6.93
	Location ID	FS-APS-006 FS-APS-006	FS-APS-006 FS-APS-006 (77.4)	FS-APS-007 FS-APS-007 (14.5)	FS-APS-007 FS-APS-007	FS-APS-007 FS-APS-007	FS-APS-008 FS-APS-008 (14.9)	FS-APS-008 FS-APS-008	FS-APS-008 FS-APS-008	FS-APS-009 FS-APS-009 (14.5)	FS-APS-010 FS-APS- 010(14.6)(110820	FS-APS-011 FS-APS-	FS-APS-011 FS-APS-	6.93
	Location ID Sample ID	FS-APS-006 FS-APS-006 (57.9)(10312018)	FS-APS-006 FS-APS-006 (77.4) (11012018)	FS-APS-007 FS-APS-007 (14.5) (11012018)	FS-APS-007 FS-APS-007 (32.7)(11022018)	FS-APS-007 FS-APS-007 (74.6)(11052018)	FS-APS-008 FS-APS-008 (14.9) (11022018)	FS-APS-008 FS-APS-008 (36.9)(11022018)	FS-APS-008 FS-APS-008 (43.2)(11052018)	FS-APS-009 FS-APS-009 (14.5) (11062018)	FS-APS-010 FS-APS- 010(14.6)(110820 18)	FS-APS-011 FS-APS- 011(11.9)(11082018)	FS-APS-011 FS-APS- 011(22.9)(11092018)	6.93
	Location ID Sample ID Sample Date	FS-APS-006 FS-APS-006	FS-APS-006 FS-APS-006 (77.4)	FS-APS-007 FS-APS-007 (14.5)	FS-APS-007 FS-APS-007	FS-APS-007 FS-APS-007	FS-APS-008 FS-APS-008 (14.9)	FS-APS-008 FS-APS-008	FS-APS-008 FS-APS-008	FS-APS-009 FS-APS-009 (14.5)	FS-APS-010 FS-APS- 010(14.6)(110820	FS-APS-011 FS-APS-	FS-APS-011 FS-APS-	6.93
pH	Location ID Sample ID	FS-APS-006 (57.9)(10312018) 10/31/2018 N Y	FS-APS-006 FS-APS-006 (77.4) (11012018) 11/1/2018 N Y	FS-APS-007 FS-APS-007 (14.5) (11012018) 11/1/2018	FS-APS-007 FS-APS-007 (32.7)(11022018) 11/2/2018 N Y	FS-APS-007 FS-APS-007 (74.6)(11052018) 11/5/2018	FS-APS-008 FS-APS-008 (14.9) (11022018) 11/2/2018	FS-APS-008 FS-APS-008 (36.9)(11022018) 11/2/2018 N Y	FS-APS-008 FS-APS-008 (43.2)(11052018) 11/5/2018	FS-APS-009 FS-APS-009 (14.5) (11062018) 11/6/2018 N Y	FS-APS-010 FS-APS- 010(14.6)(110820 18) 11/8/2018	FS-APS-011 FS-APS- 011(11.9)(11082018) 11/8/2018	FS-APS-011 FS-APS- 011(22.9)(11092018) 11/9/2018 N Y	6.93
pH	Location ID Sample ID Sample Date Sample Type Validated - Y/N Depth (ft)	FS-APS-006 FS-APS-006 (57.9)(10312018) 10/31/2018 N	FS-APS-006 FS-APS-006 (77.4) (11012018) 11/1/2018 N	FS-APS-007 FS-APS-007 (14.5) (11012018) 11/1/2018	FS-APS-007 FS-APS-007 (32.7)(11022018) 11/2/2018 N	FS-APS-007 FS-APS-007 (74.6)(11052018) 11/5/2018	FS-APS-008 FS-APS-008 (14.9) (11022018) 11/2/2018 N	FS-APS-008 FS-APS-008 (36.9)(11022018) 11/2/2018	FS-APS-008 FS-APS-008 (43.2)(11052018) 11/5/2018 N	FS-APS-009 FS-APS-009 (14.5) (11062018) 11/6/2018 N	FS-APS-010 FS-APS- 010(14.6)(110820 18) 11/8/2018	FS-APS-011 FS-APS- 011(11.9)(11082018) 11/8/2018 N	FS-APS-011 FS-APS- 011(22.9)(11092018) 11/9/2018 N	6.93
pH	Location ID Sample ID Sample Date Sample Type Validated - Y/N	FS-APS-006 (57.9)(10312018) 10/31/2018 N Y	FS-APS-006 FS-APS-006 (77.4) (11012018) 11/1/2018 N Y	FS-APS-007 FS-APS-007 (14.5) (11012018) 11/1/2018 N Y	FS-APS-007 FS-APS-007 (32.7)(11022018) 11/2/2018 N Y	FS-APS-007 FS-APS-007 (74.6)(11052018) 11/5/2018 N Y	FS-APS-008 FS-APS-008 (14.9) (11022018) 11/2/2018 N Y	FS-APS-008 FS-APS-008 (36.9)(11022018) 11/2/2018 N Y	FS-APS-008 FS-APS-008 (43.2)(11052018) 11/5/2018 N Y	FS-APS-009 FS-APS-009 (14.5) (11062018) 11/6/2018 N Y	FS-APS-010 FS-APS- 010(14.6)(110820 18) 11/8/2018 N Y	FS-APS-011 FS-APS- 011(11.9)(11082018) 11/8/2018 N Y	FS-APS-011 FS-APS- 011(22.9)(11092018) 11/9/2018 N Y	6.93
pH Analyte Per- and Polyfluoroalkyl Substances by USEPA Method 537 Modifie	Location ID Sample ID Sample Date Sample Type Validated - Y/N Depth (ft) Unit	FS-APS-006 FS-APS-006 (57.9)(10312018) 10/31/2018 N Y 57.9	FS-APS-006 FS-APS-006 (77.4) (11012018) 11/1/2018 N Y 77.4	FS-APS-007 FS-APS-007 (14.5) (11012018) 11/1/2018 N Y 14.5	FS-APS-007 FS-APS-007 (32.7)(11022018) 11/2/2018 N Y 32.7	FS-APS-007 FS-APS-007 (74.6)(11052018) 11/5/2018 N Y 74.6	FS-APS-008 FS-APS-008 (14.9) (11022018) 11/2/2018 N Y 14.9	FS-APS-008 FS-APS-008 (36.9)(11022018) 11/2/2018 N Y 36.9	FS-APS-008 FS-APS-008 (43.2)(11052018) 11/5/2018 N Y 43.2	FS-APS-009 FS-APS-009 (14.5) (11062018) 11/6/2018 N Y 14.5	FS-APS-010 FS-APS- 010(14.6)(110820 18) 11/8/2018 N Y 14.6	FS-APS-011 FS-APS- 011(11.9)(11082018) 11/8/2018 N Y 11.9	FS-APS-011 FS-APS- 011(22.9)(11092018) 11/9/2018 N Y 22.9	6.93
pH 	Location ID Sample ID Sample Date Sample Type Validated - Y/N Depth (ft) Unit d ng/1	FS-APS-006 FS-APS-006 (57.9)(10312018) 10/31/2018 N Y 57.9 1.6 U	FS-APS-006 FS-APS-006 (77.4) (11012018) 11/1/2018 N Y Y 77.4	FS-APS-007 FS-APS-007 (14.5) (11012018) 11/1/2018 N Y 14.5 1.9 U	FS-APS-007 FS-APS-007 (32.7)(11022018) 11/2/2018 N Y 32.7	FS-AFS-007 FS-AFS-007 (74.6)(11052018) 11/5/2018 N Y 74.6 1.9 U	FS-APS-008 FS-APS-008 (14.9) (11022018) 11/2/2018 N Y 14.9 14.9	FS-APS-008 FS-APS-008 (36.9)(11022018) 11/2/2018 N Y 36.9 1.7 U	FS-APS-008 FS-APS-008 (43.2)(11052018) 11/5/2018 N Y 43.2 1.8 U	FS-APS-009 FS-APS-009 (14.5) (11062018) 11/6/2018 N Y 14.5 1.8 U	FS-APS-010 FS-APS- 010(14.6)(110820 18) 11/8/2018 N Y 14.6 1.8 U	FS-APS-011 FS-APS- 011(11.9)(11082018) 11/8/2018 N Y 11.9 11.9	FS-APS-011 FS-APS- 011(22-9)(1092018) 11/9/2018 N Y 22.9 1.8 U	6.93
pH 	Location ID Sample ID Sample Date Sample Date Sample Type Validated - Y/N Depth (ft) Unit unit ul ng/1 ng/1	FS-APS-006 FS-APS-006 (57.9)(10312018) 10/31/2018 N Y 57.9 	FS-APS-006 FS-APS-006 (77.4) (11012018) 11/1/2018 N Y 77.4 	FS-APS-007 FS-APS-007 (14.5) (11012018) 11/1/2018 N Y 14.5 	FS-APS-007 FS-APS-007 (32.7)(11022018) 11/2/2018 N Y 32.7 1.7 U 2.8 U	FS-APS-007 FS-APS-007 (74.6)(11052018) 11/5/2018 N Y 74.6 	FS-APS-008 FS-APS-008 (14.9) (11022018) 11/2/2018 N Y 14.9 	FS-APS-008 FS-APS-008 (36.9)(11022018) 11/2/2018 N Y 36.9 	FS-APS-008 FS-APS-008 (43.2)(11052018) 11.2)(52018) N Y 43.2 	FS-APS-009 FS-APS-009 (14.5) (11062018) 11/6/2018 N Y 14.5 	FS-APS-010 FS-APS- 010(14.6)(110820 18) 11/8/2018 N Y 14.6 	FS-APS-011 FS-APS- 011(11.9)(11082018) 11/9/2018 N Y 11.9 1.8 U 3 U	FS-APS-011 FS-APS- 011(22.9)(11092018) 11/9/2018 N Y 22.9 1.8 U 3 U	6.93
pH 	Location ID Sample ID Sample Date Sample Type Validated - Y/N Depth (ft) Unit ul ng/1 ng/1	FS-APS-006 FS-APS-006 (57.9)(10312018) 10/31/2018 N Y 57.9 1.6 U 2.7 U 0.29 J	FS-APS-006 FS-APS-006 (77.4) (11012018) 11/1/2018 Y 77.4 1.9 U 3.1 U 0.2 U	FS-APS-007 FS-APS-007 (14.5) (11012018) 11/1/2018 N Y 14.5 	FS-APS-007 FS-APS-007 (32.7)(11022018) 11/2/2018 N Y 32.7 	FS-APS-007 FS-APS-007 (74.6)(11052018) 11/5/2018 N Y 74.6 	FS-APS-008 FS-APS-008 (14.9) (11022018) 11/2/2018 Y 14.9 14.9 1.9 U 3.1 U 3.7	FS-APS-008 FS-APS-008 (36.9)(11022018) 11/2/2018 N Y 36.9 1.7 U 2.8 U 1.8	FS-APS-008 FS-APS-008 (43.2)(11052018) 11/5/2018 N Y 43.2 	FS-APS-009 FS-APS-009 (14.5) (11062018) 11/6/2018 N Y 14.5 	FS-APS-010 FS-APS- 010(14.6)(110820 18) 11/8/2018 N Y 14.6 14.6 1.8 U 3 U 19	FS-APS-011 FS-APS- 011(11.9)(11082018) 11/8/2018 N Y 11.9 11.9 11.8 U 3 U 2.6	FS-APS-011 FS-APS- 011(22.9)(1092018) 11/9/2018 N Y 22.9 1.8 U 3 U 4.7	6.93
pH 	Location ID Sample ID Sample Date Sample Type Validated - Y/N Depth (ft) Unit ul ng/1 ng/1 ng/1	PS-APS-006 (57.9)(10312018) 10/31/2018 N Y Y 57.9 1.6 U 2.7 U 0.29 J 8.1	FS-APS-006 FS-APS-006 (77.4) (1012018) 11/1/2018 N Y 77.4 1.9 U 3.1 U 0.2 U 8.2	FS-APS-007 FS-APS-007 (14.5) (11012018) 11/1/2018 N Y 14.5 	FS-APS-007 FS-APS-007 (32.7)(11022018) 11/2/2018 Y 32.7 1.7 U 2.8 U 0.18 U 2.7	FS-APS-007 FS-APS-007 (74.6)(11052018) 11/5/2018 Y 74.6 	FS-APS-008 FS-APS-008 (14.9) (11022018) 11/2/2018 N Y 14.9 14.9 19 U 3.1 U 3.7 4.8	FS-APS-008 FS-APS-008 (36-9)(1022018) 11/2/2018 N Y 36.9 1.7 U 2.8 U 1.8 4.7	FS-APS-008 FS-APS-008 (43.2)(11052018) 11/5/2018 Y 43.2 1.8 U 2.9 U 1.8 5.5	FS-APS-009 FS-APS-009 (14.5) (11062018) 11/6/2018 N Y 14.5 18.U 2.9.U 6.4 4.4	FS-APS-010 FS-APS- 010(14.6)(110820 18) 11/8/2018 N Y 14.6 1.8 U 3 U 19 6	FS-APS-011 FS-APS- 011(11.9)(11082018) 11/8/2018 Y 11.9 11.9 11.9 1.8 U 3 U 2.6 4.6	FS-APS-011 FS-APS- 011(22.9)(1092018) 11/9/2018 Y 22.9 1.8 U 3 U 4.7 4.6	6.93
pH 	Location ID Sample ID Sample Date Sample Type Validated - Y/N Depth (ft) Unit d ng/1 ng/1 ng/1 ng/1	FS-APS-006 FS-APS-006 (57.9)(10312018) 10/31/2018 N Y 57.9 1.6 U 2.7 U 0.29 J	FS-APS-006 FS-APS-006 (77.4) (11012018) 11/1/2018 Y 77.4 1.9 U 3.1 U 0.2 U	FS-APS-007 FS-APS-007 (14.5) (11012018) 11/1/2018 N Y 14.5 	FS-APS-007 FS-APS-007 (32.7)(11022018) 11/2/2018 N Y 32.7 	FS-APS-007 FS-APS-007 (74.6)(11052018) 11/5/2018 N Y 74.6 	FS-APS-008 FS-APS-008 (14.9) (11022018) 11/2/2018 Y 14.9 14.9 1.9 U 3.1 U 3.7	FS-APS-008 FS-APS-008 (36.9)(11022018) 11/2/2018 N Y 36.9 1.7 U 2.8 U 1.8	FS-APS-008 FS-APS-008 (43.2)(11052018) 11/5/2018 N Y 43.2 	FS-APS-009 FS-APS-009 (14.5) (11062018) 11/6/2018 N Y 14.5 	FS-APS-010 FS-APS- 010(14.6)(110820 18) 11/8/2018 N Y 14.6 14.6 1.8 U 3 U 19	FS-APS-011 FS-APS- 011(11.9)(11082018) 11/8/2018 N Y 11.9 11.9 11.8 U 3 U 2.6	FS-APS-011 FS-APS- 011(22.9)(1092018) 11/9/2018 N Y 22.9 1.8 U 3 U 4.7	6.93
pH Analyte Per- and Polyfluoroalkyl Substances by USEPA Method 537 Modifie NEHCOSA NMeFOSAA Perfluorobutanosulfonic acid (PFBS) Perfluorobutanoic Acid Perfluorobutanos Esufonic Acid	Location ID Sample ID Sample Date Sample Type Validated - Y/N Depth (ft) Unit ul ng/1 ng/1 ng/1	FS-APS-006 FS-APS-006 (57.9)(10312018) 10/31/2018 N Y 57.9 1.6 U 2.7 U 0.29 J 8.1 0.39 J	FS-APS-006 FS-APS-006 (77.4) (11012018) 11/1/2018 Y 77.4 77.4 1.9 U 3.1 U 0.2 U 8.2 0.32 U	FS-APS-007 (14.5) (11012018) 11/1/2018 N Y 14.5 1.9 U 3.1 U 9.2 12 U 0.32 U	IS-APS-007 IS-APS-007 (32.7)(11022018) 11/2/2018 N Y 32.7 1.7.U 2.8.U 0.18.U 2.7 0.29.U	FS-AIS-007 IS-AIS-007 (74-6)(1052018) 11/5/2018 N Y 74-6 1.9 U 3.1 U 0.54 J 9.1 0.32 U	FS-APS-008 FS-APS-008 (14.9) (11022018) 11/2/2018 N Y 14.9 1.9 U 3.1 U 3.7 4.8 0.32 U	FS-APS-008 FS-APS-008 (36-9)(1102018) 11/2/2018 N Y 36-9 1.7 U 2.8 U 1.8 4.7 0.29 U	FS-APS-008           FS-APS-008           (43.2)(1162018)           11/5/2018           N           Y           43.2           1.8 U           2.9 U           1.8           5.5           0.3 U	FS-APS-009 FS-APS-009 (14.5) (11062018) 11/6/2018 N Y 14.5 1.8 U 2.9 U 6.4 4.4 0.3 U	FS-APS-010 FS-APS- 010(14.6)(11020) 18) 11/8/2018 N Y 14.6 14.6 14.6 14.6 19 6 0.31 U	FS-APS-011 FS-APS- 011(11.9)(11082018) 11/8/2018 N Y 11.9 11.9 1.8 U 3 U 2.6 4.6 0.31 U	FS-APS-011 FS-APS- 011(22.9)(11092018) 11/9/2018 N Y 22.9 22.9 1.8 U 3.U 4.7 4.6 0.3 U	6.93
PH Analyte Per- and Polyfluoroalkyl Substances by USEPA Method 537 Modifie NEHOSAA NMeFOSAA Perfluorobutanesilfonic acid (PEBS) Perfluorobutanesilfonic Acid Perfluorodecanoic acid (PEDA) Perfluorodecanoic acid (PEDA) Perfluorodecanoic acid (PEDA) Perfluorodecanoic acid (PEDA)	Location ID Sample ID Sample Date Sample TyPk Validated - Y/N Depth (ft) Unit d ng/1 ng/1 ng/1 ng/1 ng/1 ng/1 ng/1 ng/1	IS-APS-006 IS-APS-006 (57.9)(10312018) 10/31/2018 N Y S7.9 1.6 U 2.7 U 0.29 J 8.1 0.39 J 0.27 U 0.88 J 0.16 U	FS-APS-006 FS-APS-006 (77.4) (11012018) 11/1/2018 N Y 77.4 	FS-APS-007 FS-APS-007 (14.5) (11012018) 11/1/2018 N Y Y 14.5 1.9 U 3.1 U 92 12 U 0.32 U 0.32 U 0.44] 0.55 U	FS-APS-007 FS-APS-007 (32.7)(11022018) 11/2/2018 N Y 32.7 1.7 U 2.8 U 0.18 U 2.7 0.29 U 0.29 U 0.5 U 0.17 U	FS-APS-007 FS-APS-007 (74.6)(11052018) 11/5/2018 N Y 74.6 	FS-APS-008 FS-APS-008 (14.9) (11022018) 11/2/2018 N Y 14.9 1.9 U 3.1 U 3.7 4.8 0.32 U 0.31 U 0.55 U 0.19 U	FS-APS-008 FS-APS-008 (36.9)(11022018) 11/2/2018 N Y 36.9 1.7 U 2.8 U 1.8 4.7 0.29 U 0.29 U 0.5 U 0.17 U	IS-APS-008           FS-APS-008           (43.2)(1052018)           11/5/2018           N           Y           43.2           1.8 U           2.9 U           5.5           0.3 U           0.29 U           0.51 U           0.18 U	FS-APS-009 FS-APS-009 (14.5) (11062018) 111/6/2018 N Y 14.5 1.8 U 2.9 U 6.4 4.4 0.3 U 0.29 U 0.52 U 0.18 U	FS-APS-010 FS-APS-010(14-6)(110820 18) 11/8/2018 N Y 14.6 1.8 U 3 U 3 U 6 0.31 U 0.77 J 0.53 U 0.27 J	FS-APS-011 FS-APS- 011(11-9)(11082018) 11/8/2018 N Y 11.9 11.9 11.9 1.8 U 3.U 2.6 4.6 0.31 U 0.37 J 0.53 U 0.18 U	FS-APS-011 FS-APS-011(22-9)(1092018) 11/9/2018 Y Y 22.9 	6.93
PH PH Per- and Polyfluoroalkyl Substances by USEPA Method 537 Modifie NEIFOSAA NMeFOSAA Perfluorobutanoic Acid Perfluorobutanoic Acid Perfluorodecanoic acid (PFDA) Perfluorodecanoic acid (PFDA) Perfluoroheptanoic acid (PFDA) Perfluoroheptanoic acid (PFDA) Perfluoroheptanoic acid (PFDA) Perfluoroheptanoic acid (PFDA)	Location ID Sample Du Sample Date Sample Type Validated - Y/N Depth (ft) Unit d ng/1 ng/1 ng/1 ng/1 ng/1 ng/1 ng/1 ng/1	IS-APS-006 IS-APS-006 (57.9)(10312018) N Y 57.9 1.6 U 2.7 U 0.29 J 8.1 0.39 J 0.27 U 0.88 J 0.16 U 70	FS-APS-006 (77.4) FS-APS-006 (77.4) (11012018) 11/1/2018 N Y 77.4 77.4 77.4 0.2 U 0.3 U 0.3 2 U 0.3 1 U 0.5 5 U 0.19 U 66	FS-APS-007 (14.5) (11012018) 11/1/2018 N Y 14.5 1.9 U 3.1 U 9.2 12 U 0.32 U 0.44 J 0.55 U 0.25 U 3.3	IS-APS-007 IS-APS-007 (32.7(11022018) 11/2/2018 N Y 32.7 1.7 U 2.8 U 0.18 U 2.7 0.29 U 0.28 U 0.5 U 0.5 U 0.5 U	FS-AFS-007 FS-AFS-007 (74.6)(11052018) N Y 74.6 11/5/2018 N Y 74.6 1.9 U 3.1 U 0.54 J 0.54 U 0.54 U 0.54 U 1.9 U 41	FS-APS-008 (14.9) (11022018) 11/2/2018 N Y 14.9 14.9 1.9 U 3.1 U 3.7 4.8 0.32 U 0.55 U 0.19 U 30	FS-APS-008 FS-APS-008 (36.9)(11022018) N Y 36.9 11/2/2018 N Y 36.9 11/2/2018 X Y 36.9 11/2/2018 X U 2.8 U 1.8 4.7 0.29 U 0.29 U 0.5 U	IS-APS-008           IS-APS-008           (43.2)(1052018)           N           Y           43.2           1.8           2.9           1.8           5.5           0.3 U           0.51 U           0.18 U	FS-APS-009 FS-APS-009 (14.5) (11062018) 11/6/2018 N Y 14.5 1.8 U 2.9 U 6.4 4.4 0.3 U 0.52 U 0.18 U 11	FS-APS-010 FS-APS- 010(14.6)(11020) 18) 11/8/2018 N Y 14.6 1.8 U 3 U 19 6 0.31 U 0.77 J 0.53 U 0.27 J 12	FS-APS-011 FS-APS- 011(11.9)(11082018) 11/8/2018 N Y 11.9 11.9 1.8 U 3 U 2.6 4.6 0.31 U 0.37 J 0.53 U 0.18 U 5.5	FS-APS-011 FS-APS-011 FS-APS- 01(22)(11092018) 11/9/2018 Y 22.9 22.9 1.8 U 3 U 4.7 4.6 0.3 U 0.3 U 0.5 2 U 0.18 U 21	6.93
pH 	Location ID Sample Date Sample Type Validated - Y/N Depth (ft) Unit d ng/1 ng/1 ng/1 ng/1 ng/1 ng/1 ng/1 ng/1	IS-APS-006 IS-APS-006 (57.9)(10312018) 10/31/2018 N Y 57.9 57.9 1.6 U 2.7 U 0.29 J 8.1 0.39 J 0.27 U 0.88 J 0.16 U 70 0.86 J	FS-APS-006 FS-APS-006 (77.4) (11012018) 11/1/2018 N Y 777.4	IS-APS-007 IS-APS-007 (14.5) (11012018) 11/1/2018 N Y 14.5 1.9 U 3.1 U 9.2 12 U 0.32 U 0.44 J 0.55 U 0.27 J 33 10	IS-APS-007 IS-APS-007 (32.7)(11022018) 11/2/2018 N Y 32.7 1.7 U 2.8 U 0.18 U 2.7 0.29 U 0.32 U 0.32 U 0.5 U 0.17 U 0.95 J 0.15 U	IS-APS-007           FS-APS-007           (74.6)(11052018)           11/5/2018           N           Y           74.6           1.9 U           3.1 U           0.54 J           9.1           0.52 U           0.31 U           0.54 U           0.54 U           0.92 U	FS-APS-008           FS-APS-008 (14.9)           (11022018)           11/2/2018           N           Y           14.9           3.1 U           3.7           4.8           0.32 U           0.31 U           0.55 U           0.19 U           30           2.1	FS-APS-008 FS-APS-008 (36.9)(11022018) 11/2/2018 N Y 36.9 1.7 U 2.8 U 1.8 4.7 0.28 U 0.28 U 0.5 U 0.5 U 0.17 U 35 1.7 J	IS-APS-008           FS-APS-008           (43.2)(11052018)           11/5/2018           N           Y           43.2           1.8           5.5           0.3 U           0.51 U           0.51 U           1.8 U           2.9 U	FS-APS-009 FS-APS-009 (14-5) (11062018) 11/6/2018 N Y 14-5 	FS-APS-010 FS-APS-010(FS-APS- 010(14.6)(110820 18) 11/8/2018 N Y 14.6 1.8 U 3 U 19 6 0.31 U 0.27 J 0.53 U 0.27 J 12 2 S U	FS-APS-011 FS-APS- 011(11-9)(11082018) 11/8/2018 N Y 11.9 11.9 11.9 2.6 4.6 0.31 U 0.53 U 0.53 U 0.53 U 0.53 U 0.51 U	FS-APS-011 FS-APS- 01(22-9)(11092018) 11/9/2018 Y Y 22.9 22.9 1.8 U 3.U 4.7 4.6 0.3 U 0.3 U 0.3 U 0.3 U 0.18 U 21 2.1 U	6.93
PH Analyte Per- and Polyfluoroalkyl Substances by USEPA Method 537 Modifie NEHCSAA NefCSAA Perfluorobutanesulfonic acid (PEBS) Perfluorobutanesulfonic Acid Perfluorobecanoic Acid (PEDA) Perfluorobecanoic acid (PEDA) Perfluorobecanoic acid (PEDA) Perfluorobecanoic acid (PEDA) Perfluorobecanoic acid (PEIA) Perfluorobecanoic acid (PEHS) Perfluorobecanoic acid (PEHS) Perfluorobecanoic acid (PEHS) Perfluorobecanoic acid (PEHSA)	Location ID Sample ID Sample Date Sample Type Validated - Y/N Depth (ft) Unit af ng/1 ng/1 ng/1 ng/1 ng/1 ng/1 ng/1 ng/1	IS-APS-006 IS-APS-006 (57.9)(10312018) 10/31/2018 N Y 57.9 11.6 U 2.7 U 0.29 J 8.1 0.27 U 0.39 J 0.27 U 0.88 J 0.16 U 70 0.86 J 97	FS-APS-006 FS-APS-006 (77.4) (11012018) 11/1/2018 Y 77.4 77.4 0.2 U 0.2 U 0.2 U 0.32 U 0.32 U 0.32 U 0.32 U 0.55 U 0.19 U 66 0.65 U 100	FS-APS-007 FS-APS-007 (14.5) (11012018) 11/1/2018 N Y 14.5 1.9 U 3.1 U 9.2 12 U 0.32 U 0.32 U 0.32 U 0.32 U 0.35 U 0.27 J 33 10 26	FS-APS-007 FS-APS-007 (32.7)(11022018) 11/2/2018 N Y 32.7 1.7 U 2.8 U 0.18 U 2.7 0.29 U 0.28 U 0.5 U 0.5 U 0.5 U 0.5 U 3 3	FS-APS-007 FS-APS-007 (74.6)(1102018) 11/5/2018 N Y 74.6 	FS-APS-008 FS-APS-008 (14.9) (11022018) 11/2/2018 N Y 14.9 1.9 U 3.1 U 3.7 4.8 0.32 U 0.31 U 0.55 U 0.19 U 30 2.1 17	FS-APS-008 FS-APS-008 (36.9)(11022018) 11/2/2018 N Y 36.9 1.7 2.8 U 2.8 U 2.8 U 2.8 U 2.8 U 2.8 U 0.29 U 0.29 U 0.5 U 0.5 U 2.8 U 2.7 2.8 U 3.8 U 3.	IS-APS-008           IS-APS-008           (43.2)(11052018)           11/5/2018           N           Y           43.2           1.8           2.9           1.8           2.9 U           0.3 U           0.51           0.51 U           42           1.7 U           26	FS-APS-009 FS-APS-009 (14.5) (11062018) 11/6/2018 N Y 145 18 U 2.9 U 6.4 4.4 0.3 U 0.52 U 0.18 U 11 1.4 U 9.8	FS-APS-010 FS-APS-010 FS-APS-010(146)(11020) 18) 11/8/2018 N Y 14.6 1.8 U 3 U 3 U 19 6 0.31 U 0.53 U 0.53 U 0.53 U 2.5 U 11	FS-APS-011 FS-APS- 011(11.9)(11082018) 11/8/2018 N Y 11.9 11.9 2.6 4.6 0.31 U 0.53 U 0.18 U 5.5 1.5 U 4.6	FS-APS-011 FS-APS- 011(22)9(11092018) 11/9/2018 N Y 22.9 	6.93
pH 	Location ID Sample Date Sample Type Validated - Y/N Depth (ft) Unit of ng/1 ng/1 ng/1 ng/1 ng/1 ng/1 ng/1 ng/1	IS-APS-006 (57.9)(10312018) 10/31/2018 N Y 57.9 1.6 U 2.7 U 0.29 J 8.1 0.27 U 0.88 J 0.16 U 70 0.86 J 97 0.23 U	FS-APS-006           FS-APS-006 (77.4)           (11012018)           11/1/2018           N           Y           77.4           0.2           8.2           0.31 U           0.55 U           0.19 U           66           0.65 U           100           0.27 U	IS-APS-007 IS-APS-007 (14.5) (11012018) 11/1/2018 N Y 14.5 1.9 U 3.1 U 9.2 12 U 0.32 U 0.44 J 0.55 U 0.27 J 33 10 26 2.4	IS-APS-007 IS-APS-007 (32.7)(11022018) 11/2/2018 N Y 32.7 1.7 U 2.8 U 0.18 U 2.7 0.28 U 0.28 U 0.5 U 0.5 U 0.5 U 0.17 U 3 0.25 U	IS-AIS-007           FS-AIS-007           (74.6)(11052018)           11/5/2018           N           Y           74.6           1.9 U           3.1 U           0.54 J           9.1           0.54 U           0.54 U           0.19 U           41           0.92 U           58           0.27 U	FS-APS-008           FS-APS-008 (14.9)           (11022018)           11/2/2018           N           Y           14.9           3.1 U           3.7           4.8           0.32 U           0.31 U           0.55 U           0.19 U           30           2.1           17           1.1 J	FS-APS-008 FS-APS-008 (66.9)(11022018) 11/2/2018 N Y 36.9 1.7 U 2.8 U 1.8 4.7 0.29 U 0.28 U 0.28 U 0.17 U 35 1.7 J 22 1.5 J	FS-APS-008           FS-APS-008           (43.2)(11052018)           11/5/2018           N           Y           43.2           1.8           2.9           1.8           5.5           0.3 U           0.29 U           0.51 U           0.18 U           42           1.7 U           26           2	FS-APS-009 FS-APS-009 (14-5) (11062018) 11/6/2018 N Y 14-5 1-8-U 2-2-9-U 6-4 4-4 0-3-U 0-2-9-U 0-18-U 11 1-4-U 9-8 1-1]	FS-APS-010 FS-APS-010(FS-APS- 010(14.6)(110820 18) 11/8/2018 N Y 14.6 1.8 U 3 U 3 U 19 6 0.33 U 0.27 J 12 2.5 U 11 1.5 J	FS-APS-011 FS-APS- 011(11-9)(11082018) 11/8/2018 N Y 11.9 11.9 1.8 U 3 U 2.6 4.6 0.31 U 0.53 U 0.53 U 0.18 U 5.5 1.5 U 4.6 0.43 J	FS-APS-011 FS-APS- 01(22-9)(1092018) 11/9/2018 Y Y 22.9 22.9 1.8 U 3 U 4.7 4.6 0.3 U 0.52 U 0.18 U 21 2.1 U 14 0.37 J	6.93
pH 	Location ID Sample Du Sample Dute Sample Type Validated - Y/N Depth (ft) Unit d ng/1 ng/1 ng/1 ng/1 ng/1 ng/1 ng/1 ng/1	IS-APS-006 IS-APS-006 (57.9)(10312018) 10/31/2018 N Y 57.9 11.6 U 2.7 U 0.29 J 8.1 0.27 U 0.39 J 0.27 U 0.88 J 0.16 U 70 0.66 J 97	FS-APS-006 FS-APS-006 (77.4) (11012018) 11/1/2018 Y 77.4 77.4 0.2 U 0.2 U 0.2 U 0.32 U 0.32 U 0.32 U 0.32 U 0.55 U 0.19 U 66 0.65 U 100	FS-APS-007 FS-APS-007 (14.5) (11012018) 11/1/2018 N Y 14.5 1.9 U 3.1 U 9.2 12 U 0.32 U 0.32 U 0.32 U 0.32 U 0.35 U 0.27 J 33 10 26	FS-APS-007 FS-APS-007 (32.7)(11022018) 11/2/2018 N Y 32.7 1.7 U 2.8 U 0.18 U 2.7 0.29 U 0.28 U 0.5 U 0.5 U 0.5 U 0.5 U 3 3	FS-APS-007 FS-APS-007 (74.6)(1152018) 11/5/2018 N Y 74.6 	FS-APS-008 FS-APS-008 (14.9) (11022018) 11/2/2018 N Y 14.9 1.9 U 3.1 U 3.7 4.8 0.32 U 0.31 U 0.55 U 0.19 U 30 2.1 17	FS-APS-008 FS-APS-008 (36.9)(11022018) 11/2/2018 N Y 36.9 1.7 2.8 U 2.8 U 2.8 U 2.8 U 2.8 U 2.8 U 0.29 U 0.29 U 0.5 U 0.5 U 2.8 U 2.7 2.8 U 3.8 U 3.	IS-APS-008           IS-APS-008           (43.2)(11052018)           11/5/2018           N           Y           43.2           1.8           2.9           1.8           2.9 U           0.3 U           0.51           0.51 U           42           1.7 U           26	FS-APS-009 FS-APS-009 (14.5) (11062018) 11/6/2018 N Y 145 18 U 2.9 U 6.4 4.4 0.3 U 0.52 U 0.18 U 11 1.4 U 9.8	FS-APS-010 FS-APS-010 FS-APS-010(146)(11020) 18) 11/8/2018 N Y 14.6 1.8 U 3 U 3 U 19 6 0.31 U 0.53 U 0.53 U 0.53 U 2.5 U 11	FS-APS-011 FS-APS- 011(11.9)(11082018) 11/8/2018 N Y 11.9 11.9 2.6 4.6 0.31 U 0.53 U 0.18 U 5.5 1.5 U 4.6	FS-APS-011 FS-APS- 011(22)9(11092018) 11/9/2018 N Y 22.9 	6.93
PH Analyte Per- and Polyfluoroalkyl Substances by USEPA Method 537 Modifie NEHOSAA Perfluorobutanesulfonic acid (PFBS) Perfluorobutanesulfonic Acid Perfluorodecanoic acid (PFDA) Perfluorodecanoic acid (PFDA) Perfluorobeptanoic acid (PFHS) Perfluorobeptanoic acid (PFHS) Perfluorobexanesulfonic acid (PFHS) Perfluorobexanesulfonic acid (PFHS) Perfluorobexanesulfonic acid (PFHS) Perfluorobexanesulfonic acid (PFHS) Perfluorobexanesulfonic acid (PFHS) Perfluoronbexanoic acid (PFHA) Perfluoronbexanoic acid (PFHA) Perfluoronbexanoic acid (PFHA)	Location ID Sample Date Sample Type Validated - Y/N Depth (ft) Unit of ng/1 ng/1 ng/1 ng/1 ng/1 ng/1 ng/1 ng/1	IS-APS-006 IS-APS-006 (57.9)(10312018) 10/31/2018 N Y 57.9 1.6 U 2.7 U 0.29 J 8.1 0.39 J 0.27 U 0.39 J 0.32 U 0.36 J 97 0.23 U 0.7 J	FS-APS-006 FS-APS-006 (77.4) (11012018) 11/1/2018 N Y 77.4 77.4 0.2 U 0.2 U 0.2 U 0.32 U 0.32 U 0.31 U 0.55 U 0.65 U 100 0.65 U 100 0.27 U 0.35 U	FS-APS-007 FS-APS-007 (14.5) (11012018) 11/1/2018 N Y 14.5 1.9 U 3.1 U 9.2 1.2 U 0.32 U 0.32 U 0.32 U 0.44 J 0.55 U 2.4 2.4 0.35 U	FS-APS-007 FS-APS-007 (32.7)(11022018) 11/2/2018 N Y 32.7 1.7 U 2.8 U 0.18 U 2.7 0.29 U 0.29 U 0.29 U 0.5 U 0.5 U 3 0.25 U 0.32 U	FS-APS-007 FS-APS-007 (74.6)(11052018) 11/5/2018 N Y 74.6 	FS-APS-008           FS-APS-008 (14.9)           (11022018)           11/2/2018           N           Y           14.9           3.1 U           3.7           4.8           0.32 U           0.31 U           0.55 U           0.19 U           30           2.1           17           1.1           0.35 U	FS-APS-008 FS-APS-008 (36.9)(1102018) 11/2/2018 N Y 36.9 1.7 U 2.8 U 1.8 4.7 0.29 U 0.5 U 0.5 U 0.17 U 35 1.7 J 22 1.5 J 0.32 U	FS-APS-008           FS-APS-008           (43.2)(1052018)           11/5/2018           N           Y           43.2           -      -          -      -	FS-APS-009 FS-APS-009 (14.5) (11062018) 11/6/2018 N Y 14.5 1.8 U 2.9 U 6.4 4.4 0.3 U 0.52 U 0.18 U 11 U 1.4 U 9.8 1.1 J 0.61 J	FS-APS-010 FS-APS-010(FS-APS- 010(146)(11080) 18) 11/8/2018 N Y 14.6 1.8 U 3 U 19 6 0.31 U 0.53 U 0.53 U 0.53 U 0.27 J 12 2.5 U 11 1.5 J 0.34 U	FS-APS-011 FS-APS- 011(11.9)(11082018) 11/8/2018 N Y 11.9 11.9 11.9 2.6 4.6 0.31 U 0.53 U 0.53 U 0.53 U 0.53 U 1.5 U 4.6 0.43 J 0.34 U	FS-APS-011 FS-APS- 01(22)9(11092018) 11/9/2018 N Y 22.9 1.8 U 3.U 4.6 0.3 U 0.3 U 0.3 U 0.3 U 0.3 U 0.3 U 0.3 U 21 21 21 U 14 0.37 I 0.33 U	6.93
PH Analyte Per- and Polyfluoroalkyl Substances by USEPA Method 537 Modifie NEHCOSA NMeFOSAA Perfluorobutanoic Acid (PFBS) Perfluorobutanoic Acid (PFDA) Perfluorobutanoic acid (PFDA) Perfluorobetanoic acid (PFDA) Perfluorobetanoic acid (PFDA) Perfluorobetanoic acid (PFHS) Perfluorobetanoic acid (PFHA) Perfluorobetanoic acid (PFHA) Perfluorobetanoic acid (PFHA) Perfluorochanoic acid (PFAA)	Location ID Sample Date Sample Appendic Sample Date Sample Type Validated - Y/N Depth (ft) Unit mg/1 ng/1 ng/1 ng/1 ng/1 ng/1 ng/1 ng/1 n	IS-APS-006 IS-APS-006 (57.9)(10312018) 10/31/2018 N Y 57.9 1.6 U 2.7 U 0.29 J 0.27 U 0.39 J 0.27 U 0.88 J 0.16 U 70 0.86 J 97 0.23 U 0.7 J 2.4 I 1100 J 18	FS-APS-006 FS-APS-006 (77.4) (11012018) 11/1/2018 N Y 77.4 77.4 0.2 U 3.1 U 0.2 U 0.3 U 0.32 U 0.32 U 0.19 U 0.65 U 0.65 U 0.05 U 0.05 U 0.35 U 1.6 J 840 J 18	FS-APS-007 FS-APS-007 (14.5) (11012018) 11/1/2018 N Y 14.5 1.9 U 3.1 U 9.2 12 U 0.32 U 0.32 U 0.27 J 33 10 26 2.4 0.35 U 10 990 J 20	FS-APS-007 FS-APS-007 (327)(11022018) 11/2/2018 N Y 32.7 1.7 U 2.8 U 0.18 U 0.18 U 2.7 0.29 U 0.29 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 0.25 U 0.	FS-AFS-007 FS-AFS-007 (74-6)(1162018) 11/5/2018 N Y 74.6 1.9 U 3.1 U 0.54 J 0.54 J 0.54 U 0.19 U 0.19 U 41 0.92 U 0.54 U 0.54 U 0.54 U 0.54 U 0.55	FS-APS-008 (14.9) (11022018) 11/2/2018 N Y 14.9 14.9 14.9 3.1 U 3.7 4.8 0.32 U 0.55 U 0.19 U 30 2.1 17 1.1] 0.35 U 8.4 810] 7.2	FS-APS-008 FS-APS-008 (36.9)(11/22018) N Y 36.9 11/2/2018 N Y 36.9 11/2 L 2.8 U 1.8 4.7 0.29 U 0.5 U 0.17 U 35 1.7 I 22 1.5 ] 0.32 U 0.49 U 2500 J 7.1	FS-APS-008           FS-APS-008           (43.2)(11052018)           N           Y           43.2           1.8           2.9           1.8           2.9           1.8           0.3 U           0.51 U           0.18 U           26           2           0.32 U           0.85 J           2.002 J	FS-APS-009 FS-APS-009 (14.5) (1106/2018) 11/6/2018 N Y 14.5 15.5	FS-APS-010 FS-APS- 010(14.6)(11020) 18) 11/8/2018 N Y 14.6 1.8 U 3 U 19 6 0.31 U 0.53 U 0.53 U 0.53 U 0.53 U 12 2.5 U 11 1.5 J 0.34 U 12 550 J 8.2	FS-APS-011 FS-APS- 011(11.9)(11082018) 11/8/2018 N Y 11.9 11.9 11.9 1.8 U 3 U 2.6 4.6 0.31 U 0.53 U 0.53 U 0.53 U 0.53 U 0.54 U 0.34 U 6.3 250 2.3	FS-APS-011 FS-APS-011 FS-APS- 011(22)9(11092018) N Y 2229 	6.93
Analyte Per- and Polyfluoroalkyl Substances by USEPA Method 537 Modifie NEIFOSAA NMeFOSAA Perfluorobutanesulfonic acid (PFBS) Perfluorobutanesulfonic Acid Perfluorobetanesulfonic Acid Perfluorobetanesulfonic Acid Perfluorobetanesulfonic Acid Perfluorobetanesulfonic Acid Perfluorobetanesulfonic acid (PFDA) Perfluorobetanesulfonic acid (PFIA) Perfluoroctanesulfonic Acid (PFIA) Perfluoroctanesulf	Location ID Sample Date Sample Type Validated - Y/N Depth (ft) Unit of ng/1	IS-APS-006 IS-APS-006 (57.9)(10312018) 10/31/2018 N Y 57.9 5	FS-APS-006           FS-APS-006 (77.4)           (11012018)           11/1/2018           11/1/2018           Y           77.4           0.2           0.32           0.32           0.31           0.55           0.31           0.55           0.32           0.32           0.32           0.32           0.32           0.32           0.32           0.32           0.32           0.32           0.32           0.32           0.32           0.32           0.32           0.32           0.32           0.32           100           0.35           1.6           18           0.29	FS-APS-007 FS-APS-007 (14.5) (11012018) 11/1/2018 N Y Y 14.5 1.9 U 3.1 U 9.2 12 U 0.32 U 0.44 J 0.25 U 0.27 J 33 10 26 2.4 0.35 U 10 990 J 20 0.29 U	FS-APS-007 FS-APS-007 (32.7)(11022018) 11/2/2018 N Y 32.7 1.7 U 2.8 U 0.18 U 2.7 0.29 U 0.29 U 0.29 U 0.29 U 0.35 U 0.5 U 0.35 U 0.32 U 0.32 U 0.49 U 14 2.2 0.26 U	FS-APS-007 FS-APS-007 (74-6)(11052018) 11/5/2018 N Y 74.6 	FS-APS-008           FS-APS-008 (14.9)           (11022018)           11/2/2018           N           Y           14.9           3.1 U           3.1 U           3.1 U           3.1 U           3.1 U           0.31 U           0.55 U           0.31 U           0.55 U           0.19 U           30           2.1           17           1.1]           0.35 U           8.4           8.0           7.2           0.29 U	FS-APS-008 FS-APS-008 (36.9)(11022018) 11/2/2018 N Y 36.9 1.7 U 2.8 U 1.8 4.7 0.28 U 0.28 U 0.28 U 0.35 U 0.17 U 35 1.7 J 22 1.5 J 0.32 U 0.49 U 2.500 J 7.1 0.26 U	FS-APS-008           FS-APS-008           (43.2)(11052018)           11/5/2018           N           Y           43.2           1.8           2.9 U           5.5           0.3 U           0.29 U           0.51 U           0.18 U           26           2           0.32 U           0.85 J           2032 U           0.85 J           2000 J           7.4           0.27 U	FS-APS-009           FS-APS-009 (14.5)           (11062018)           11/6/2018           N           Y           14.5           1.8 U           2.9 U           6.4           4.4           0.3 U           0.52 U           0.52 U           0.18 U           11           1.4 U           9.8           1.1]           0.61 J           8.8           500 I           6.6           0.27 U	FS-APS-010         FS-APS-010           FS-APS-010(14-6)(110820)         18)           11/8/2018         11/8/2018           N         N           Y         14.6           11/8/2018         0.3           0         0.31 U           0.53 U         0.77 J           0.53 U         0.27 J           12         2.5 U           11         15 J           0.34 U         12           550 J         8.2           0.28 U         0.28 U	FS-APS-011 FS-APS- 011(11-9)(11082018) 11/8/2018 N Y 11.9 11.9 11.9 2.6 4.6 0.31 U 0.37 J 0.53 U 0.38 U 5.5 1.5 U 4.6 0.43 J 0.34 U 6.3 250 2.3 0.28 U	FS-APS-011 FS-APS-011 FS-APS- 01(22.9)(11092018) 11/9/2018 Y 22.9 22.9 1.8 U 3.U 4.7 4.6 0.3 U 0.3 U 0.3 U 0.3 U 0.18 U 21 2.1 U 14 14 0.33 U 0.33 U 0.22 I 860 J 5.3 0.28 U	6.93
PH Analyte Per- and Polyfluoroalkyl Substances by USEPA Method 537 Modifie NEHCOSA NMGFOSAA Perfluorobutanoic Acid (PEBS) Perfluorobetanoic acid (PEDA) Perfluorodecanoic acid (PEDA) Perfluorodecanoic acid (PEDA) Perfluorobetane Sulfonaite (Acid Perfluorobetane Sulfonaite (PEHS) Perfluorobetane Sulfonaite (PEHA) Perfluorobetane Sulfonaite (PENA) Perfluorobetane Sulfonaite (PENA) Perfluorobetane Sulfonaite (PEOS) Perfluorobetane Sulfonaite (CSA) Perfluorobetane Cacid (PFDA) Perfluorobetane Cacid (PFDA) Perfluorotetradecanoic Acid (PFTA) Perfluorot	Location ID Sample Date Sample Type Validated - Y/N Depth (ft) Unit mg/1 ng/1 ng/1 ng/1 ng/1 ng/1 ng/1 ng/1 n	IS-APS-006 IS-APS-006 (57.9)(10312018) 10/31/2018 N Y 57.9 11.6 U 2.7 U 0.29 J 8.1 0.27 U 0.29 J 8.1 0.27 U 0.88 J 0.16 U 70 0.86 J 97 0.23 U 0.23 U 0.7J 2.4 1100 J 18 1.8 1.3 J	FS-APS-006 FS-APS-006 (77.4) (11012018) 11/1/2018 N Y 77.4 77.4 1.9 U 3.1 U 0.2 U 8.2 0.32 U 0.31 U 0.55 U 0.19 U 66 0.65 U 100 0.27 U 0.35 U 1.6 J 840 J 18 13 U 1.3 U	FS-APS-007 FS-APS-007 (14.5) (11012018) 11/1/2018 N Y 14.5 1.9 U 3.1 U 9.2 12 U 0.32 U 0.32 U 0.44 J 0.55 U 0.27 J 33 10 26 2.4 0.35 U 10 990 J 20 0.29 U 1.3 U	FS-APS-007 FS-APS-007 (32.7)(11022018) 11/2/2018 N Y 32.7 1.7 U 2.8 U 0.18 U 2.7 0.29 U 0.29 U 0.29 U 0.5 U	FS-APS-007 FS-APS-007 (74.6)(1162018) 11/5/2018 N Y 74.6	FS-APS-008 (14.9) (11022018) 11/2/2018 11/2/2018 Y 14.9 12/2018 Y 11/2/2018 Y 11/2/2018 11/2/2018 Y 11/2/2018 11/2018 11/2/201	FS-APS-008 FS-APS-008 (36.9)(11022018) 11/2/2018 N Y 36.9 127 U 2.8 U 1.7 U 2.8 U 0.29 U 0.29 U 0.5 U 0.5 U 0.17 U 35 1.7 J 22 1.5 J 0.32 U 0.49 U 2800 J 7.1 U 2.8 U 0.26 U 1.2 U	IS-APS-008           IS-APS-008           (43.2)(11052018)           11/5/2018           N           Y           43.2           1.8           2.9           1.8           2.9 U           0.3 U           0.51           0.51 U           0.18 U           26           2.0           0.32 U           0.85 J           200 J           7.4           0.27 U           1.2 U	FS-APS-009 IS-APS-009 (14.5) (11062018) 11/6/2018 N Y 145 18 U 2.9 U 6.4 4.4 0.3 U 0.52 U 0.18 U 11 1.4 U 9.8 11 1.4 U 9.8 13 1.4 U 9.8 14.5 1.1 0.61 J 8.8 580 J 6.6 0.27 U 1.2 U	FS-APS-010 FS-APS 010(14.6)(11020) 18) 11/8/2018 N Y 14.6 18 U 3 U 3 U 19 6 0.31 U 0.53 U 0.53 U 0.53 U 0.53 U 12 2.5 U 11 1.5 J 0.34 U 12 550 J 8.2 2 .28 U 11.2 U	FS-APS-011 FS-APS- 011(11.9)(11082018) 11/8/2018 N Y 11.9 11.9 2.6 4.6 0.31 U 0.18 U 0.53 U 0.18 U 0.53 U 0.18 U 0.55 1.5 U 1.5 U 4.6 0.43 J 0.34 U 6.3 250 2.3 0.28 U 1.3 U	FS-APS-011 FS-APS-011 FS-APS- 011(22)9(11092018) 11/9/2018 N Y 22.9 	6.93
Analyte Per- and Polyfluoroalkyl Substances by USEPA Method 537 Modifie NEHOSAA NMeFOSAA Perfluorobutanesulfonic acid (PFBS) Perfluorobutanesulfonic Acid Perfluorobutanesulfonic Acid Perfluorobeptane Sulfonic Acid Perfluorobeptane Perfl	Location ID Sample ID Sample Date Sample Type Validated - Y/N Depth (ft) Unit of ng/1 n	IS-APS-006 IS-APS-006 (57.9)(10312018) 10/31/2018 N Y 57.9 1.6 U 2.7 U 0.27 J 0.27 J 0.27 J 0.27 J 0.27 U 0.88 J 0.27 U 0.88 J 0.27 U 0.86 J 97 0.23 U 0.7 J 1100 J 18 1.8 1.3 J 0.95 U	FS-APS-006           FS-APS-006 (77.4)           (11012018)           11/1/2018           N           Y           77.4           0.10           0.2 U           8.2           0.31 U           0.55 U           0.35 U           0.65 U           100           0.27 U           0.35 U           1.6 J           840 J           1.3 U           1.3 U	FS-APS-007 FS-APS-007 (14.5) (11012018) 11/1/2018 N Y 1.9 U 3.1 U 92 12 U 0.32 U 0.44 J 0.55 U 0.25 U 0.27 J 33 10 26 24 0.35 U 10 20 20 10 20 20 10 10 20 21 10 20 21 10 20 21 10 20 21 10 20 21 10 20 21 10 20 21 20 21 21 20 21 21 21 21 21 21 21 21 21 21	IS-APS-007 IS-APS-007 (327)(11022018) 11/2/2018 N Y 32.7 1.7 U 2.8 U 0.18 U 2.7 0.28 U 0.28 U 0.28 U 0.28 U 0.35 U 0.3	FS-APS-007           FS-APS-007           (74.6)(11052018)           11/5/2018           N           Y           74.6           1.9 U           3.1 U           0.54 J           9.1           0.54 U           0.52 U           380           0.29 U           1.5           0.29 U           1.1 U	FS-APS-008           FS-APS-008 (14.9)           (11022018)           11/2/2018           N           Y           14.9           3.1           3.1           3.7           4.8           0.31           0.31           0.31           0.32           0.31           3.0           2.1           17           3.1           0.35           0.35           84           810           7.2           0.29 U           1.3 U	FS-APS-008 FS-APS-008 (36.9)(11022018) 11/2/2018 N Y 36.9 1.7 U 2.8 U 1.8 4.7 0.28 U 0.28 U 0.28 U 0.3 U 0.28 U 0.3 U	FS-APS-008           FS-APS-008           (43.2)(11052018)           11/5/2018           N           Y           43.2           1.8           2.9 U           5.5           0.3 U           0.51 U           0.51 U           0.51 U           0.51 U           0.32 U           1.12 U	FS-APS-009 FS-APS-009 (14-5) (11062018) 11/6/2018 N Y 14-5 1.8 U 2.9 U 6.4 4.4 0.3 U 0.52 U 0.52 U 0.3 U 0.52 U 0.18 U 11 1.4 U 9.8 1.1 J 0.61 J 8.8 580 J 6.6 0.27 U 1.2 U 1.2 U	FS-APS-010         FS-APS-010           FS-APS-010(14-6)(110820         18)           11/8/2018         N           N         N           Y         14.6           13/0         11/8/2018           N         N           Y         14.6           10         0.31 U           0.031 U         0.27 J           12         2.5 U           11         1.5 J           0.34 U         12           8.2         0.28 U           1.2 U         1.1 U	FS-APS-011           FS-APS-           011(1.9)(11082018)           11/8/2018           N           Y           11.9           1.8 U           3 U           2.6           4.6           0.31 U           0.53 U           0.53 U           0.34 U           6.3           250           2.3           0.28 U           1.1 U	FS-APS-011 FS-APS-011 FS-APS- 01(22-9)(1092018) 11/9/2018 Y Y 22.9 22.9 22.9 1.8 U 3.U 4.7 4.6 0.3 U 0.3 U 0.2 U 1.2 U	6.93
PH	Location ID Sample Du Sample Du Sample Type Validated - Y/N Depth (ft) Unit ng/1 ng/1 ng/1 ng/1 ng/1 ng/1 ng/1 ng/1	IS-APS-006 IS-APS-006 (57.9)(10312018) 10/31/2018 N Y 57.9 1.6 U 2.7 U 0.29 J 8.1 0.39 J 0.27 U 0.88 J 0.27 U 0.86 J 97 0.23 U 0.7 J 2.4 100 J 18 1.8 1.8 1.6 J 0.95 U 1.7 U	FS-APS-006         (77.4)           FS-APS-006 (77.4)         (11012018)           11/1/2018         11/1/2018           11/1/2018         11/1/2018           12         3.1 U           0.2 U         8.2           0.32 U         0.31 U           0.55 U         0.32 U           0.55 U         0.31 U           0.55 U         0.35 U           1.6 I         18           0.29 U         1.3 U           1.1 U         2 U	FS-APS-007 FS-APS-007 (14.5) (11012018) 11/1/2018 N Y 14.5 19 U 3.1 U 9.2 12 U 0.32 U 0.32 U 0.32 U 0.32 U 0.32 U 0.35 U 10 26 24 0.35 U 10 990 J 20 0.29 U 1.3 U 2.1 U 2.2 U	FS-APS-007 FS-APS-007 (32.7)(11022018) 11/2/2018 N Y 23.27	FS-APS-007 FS-APS-007 (74.6)(11052018) 11/5/2018 N Y 74.6 	FS-APS-008           FS-APS-008 (14.9)           (11022018)           11/2/2018           11/2/2018           11/2/2018           11/2/2018           11/2/2018           11/2/2018           11/2/2018           11/2/2018           11/2/2018           11/2           3.1 U           3.7           4.8           0.32 U           30           2.1           1.1           0.35 U           8.4           810 J           7.2           0.29 U           1.3 U           1.1 U           2.U	FS-APS-008 FS-APS-008 (36.9)(11022018) 11/2/2018 N Y 36.9 1.7 U 2.8 U 1.8 4.7 0.29 U 0.28 U 0.5 U 0.5 U 0.5 U 1.7 J 22 1.7 J 23 0.3 U 0.49 U 2.8 U 0.5 U 0.5 U 0.5 U 1.7 J 2.2 U 0.5 U 0.5 U 1.7 J 1.5 J 0.3 2 U 0.49 U 1.5 J 0.3 2 U 0.49 U 1.5 J 0.5 2 U 0.5 2 U 1.5 U 1.5 U 1.5 U 1.5 U 1.5 U 1.5 U 1.5 U 1.5 U 1.5 U	FS-APS-008           FS-APS-008           (43.2)(11052018)           11/5/2018           N           Y           43.2           1.8           2.9           1.8           2.9 U           0.3 U           0.51 U           0.51 U           0.51 U           0.29 U           0.32 U           0.88 J           26           2           0.32 U           0.32 U           0.32 U           1.8 U           2.27 U           1.2 U           1.8 U	FS-APS-009 IS-APS-009 (14.5) (11062018) 11/6/2018 N Y 145 18 U 2.9 U 6.4 4.4 0.3 U 0.52 U 0.52 U 0.18 U 11 1.4 U 9.8 1.1 1.4 U 9.8 1.1 1.4 U 9.8 1.1 1.4 U 9.8 1.1 1.4 U 9.8 1.1 1.4 U 9.8 1.1 1.4 U 9.8 1.1 1.1 1.4 U 9.8 1.1 1.4 U 1.4 U 9.8 1.1 1.4 U 1.4 U 9.8 1.1 1.4 U 1.4 U 9.8 1.1 1.4 U 1.4 U 1.5 U 1.4 U 1.5 U 1.	FS-APS-010 FS-APS-010 FS-APS- 010(14.6)(11080) 18) 11/8/2018 N Y 14.6 18 U 3 U 19 6 0.31 U 0.31 U 0.31 U 0.33 U 0.33 U 0.33 U 12 2.5 U 11 1.5 J 0.34 U 1.2 U 1.1 J 8.2 0.28 U 1.2 U 1.3 U 1.2 U 1.3 U 1.2 U 1.3 U 1.5 U	FS-APS-011 FS-APS- 011(11.9)(11082018) 11/8/2018 N Y 11.9 11.9 11.9 2.6 4.6 0.31 U 0.37 J 0.53 U 0.18 U 5.5 1.5 U 4.6 0.43 J 0.34 U 6.3 250 2.3 0.28 U 1.3 U 1.3 U 1.3 U 1.3 U	FS-APS-011 FS-APS- 011(22)9(11092018) 11/9/2018 N Y 22.9 1.8 U 3 U 4.7 4.6 0.3 U 0.3 U 0.3 U 0.5 2 U 0.1 8 U 21 2.1 U 14 0.37 1 0.33 U 0.21 U 14 0.33 U 0.21 U 15 860 1 5.3 0.28 U 1.2 U 1.9 U	6.93
Analyte Per- and Polyfluoroalkyl Substances by USEPA Method 537 Modifie NEHCOSA NMeFOSAA Perfluorobutanoic Acid Perfluorobutanoic Acid Perfluorobetanoic acid (PFBS) Perfluorobetanoic acid (PFDA) Perfluorobetanoic acid (PFDA) Perfluorobetanoic acid (PFDA) Perfluorobetanoic acid (PFHS) Perfluorobetanoic acid (PFHA) Perfluorochanoic acid (PFHA) Perfluorochanoic acid (PFHA) Perfluorochanoic acid (PFAA) Perfluorochanoic Aci	Location ID Sample ID Sample Date Sample Type Validated - Y/N Depth (ft) Unit of ng/1 n	IS-APS-006 IS-APS-006 (57.9)(10312018) 10/31/2018 N Y 57.9 1.6 U 2.7 U 0.27 J 0.27 J 0.27 J 0.27 J 0.27 U 0.88 J 0.27 U 0.88 J 0.27 U 0.86 J 97 0.23 U 0.7 J 1100 J 18 1.8 1.3 J 0.95 U	FS-APS-006           FS-APS-006 (77.4)           (11012018)           11/1/2018           N           Y           77.4           0.10           0.2 U           8.2           0.31 U           0.55 U           0.35 U           0.65 U           100           0.27 U           0.35 U           1.6 J           840 J           1.3 U           1.3 U	FS-APS-007 FS-APS-007 (14.5) (11012018) 11/1/2018 N Y 1.9 U 3.1 U 92 12 U 0.32 U 0.44 J 0.55 U 0.25 U 0.27 J 33 10 26 24 0.35 U 10 20 20 10 20 20 10 10 20 21 10 20 21 10 20 21 10 20 21 10 20 21 10 20 21 10 20 21 20 21 21 20 21 21 21 21 21 21 21 21 21 21	IS-APS-007 IS-APS-007 (327)(11022018) 11/2/2018 N Y 32.7 1.7 U 2.8 U 0.18 U 2.7 0.28 U 0.28 U 0.28 U 0.28 U 0.35 U 0.3	FS-APS-007           FS-APS-007           (74.6)(11052018)           11/5/2018           N           Y           74.6           1.9 U           3.1 U           0.54 J           9.1           0.54 U           0.52 U           380           0.29 U           1.5           0.29 U           1.1 U	FS-APS-008           FS-APS-008 (14.9)           (11022018)           11/2/2018           N           Y           14.9           3.1           3.1           3.7           4.8           0.31           0.31           0.31           0.32           0.31           3.0           2.1           17           3.1           0.35           0.35           84           810           7.2           0.29 U           1.3 U	FS-APS-008 FS-APS-008 (36.9)(11022018) 11/2/2018 N Y 36.9 1.7 U 2.8 U 1.8 4.7 0.28 U 0.28 U 0.28 U 0.3 U 0.28 U 0.3 U	FS-APS-008           FS-APS-008           (43.2)(11052018)           11/5/2018           N           Y           43.2           1.8           2.9 U           5.5           0.3 U           0.51 U           0.51 U           0.51 U           0.51 U           0.32 U           1.12 U	FS-APS-009 FS-APS-009 (14-5) (11062018) 11/6/2018 N Y 14-5 1.8 U 2.9 U 6.4 4.4 0.3 U 0.52 U 0.52 U 0.3 U 0.52 U 0.18 U 11 1.4 U 9.8 1.1 J 0.61 J 8.8 580 J 6.6 0.27 U 1.2 U 1.2 U	FS-APS-010         FS-APS-010           FS-APS-010(14-6)(110820         18)           11/8/2018         N           N         N           Y         14.6           13/0         11/8/2018           N         N           Y         14.6           10         0.31 U           0.031 U         0.27 J           12         2.5 U           11         1.5 J           0.34 U         12           8.2         0.28 U           1.2 U         1.1 U	FS-APS-011           FS-APS-           011(1.9)(11082018)           11/8/2018           N           Y           11.9           1.8 U           3 U           2.6           4.6           0.31 U           0.53 U           0.53 U           0.34 U           6.3           250           2.3           0.28 U           1.1 U	FS-APS-011 FS-APS-011 FS-APS- 01(22-9)(1092018) 11/9/2018 Y Y 22.9 22.9 22.9 1.8 U 3.U 4.7 4.6 0.3 U 0.3 U 0.2 U 1.2 U	6.93
Analyte Per- and Polyfluoroalkyl Substances by USEPA Method 537 Modifie NEHCGAA NMeFCOSA Perfluorobutanesulfonic acid (PFBS) Perfluorobutanesulfonic Acid Perfluorobutanesulfonic Acid Perfluorobutanesulfonic Acid Perfluorobetanoic acid (PFDA) Perfluorobetanoic acid (PFDA) Perfluorobetanoic acid (PFIAS) Perfluorobetanoic acid (PFIAS) Perfluorobetanoic acid (PFIAS) Perfluorobetanoic acid (PFIAA) Perfluorobetanoic acid (PFAA) Perfluorotidecanoic Acid (PFFA) Perfluorotidecanoic Acid (PFFA) Perfluorotidecanoic Acid (PFIA) Perfluorotidecanoic Acid (PFIA) Perfluorotidecanoic Acid (PFIA) SODIUM 1H,1H,2H,2H-PERFLUORODECANE SULFONATE (k-2) SODIUM 1H,1H,2H,2H-PERFLUORODCTANE	Location ID Sample Date Sample Type Validated - Y/N Depth (ft) Unit of ng/1 ng/1 ng/1 ng/1 ng/1 ng/1 ng/1 ng/1	IS-APS-006 IS-APS-006 (57.9)(10312018) 10/31/2018 N Y 57.9 57.9 1.6 U 2.7 U 0.27 J 0.27 J 0.27 J 0.27 J 0.27 U 0.88 J 0.27 U 0.86 J 97 0.23 U 0.7 J 2.4 1.6 U 1.8 1.3 J 0.95 U 1.7 U 1.7 U	FS-APS-006           FS-APS-006 (77.4)           (11012018)           11/1/2018           11/1/2018           11/1/2018           11/1/2018           11/1/2018           0.31 U           0.22 U           8.2           0.32 U           0.35 U           1.6 J           18           0.29 U           1.1 U           2 U           2 U	FS-APS-007           FS-APS-007 (14.5) (11012018)           11/1/2018           N           Y           1.9 U           3.1 U           92           12 U           0.32 U           0.44 J           0.55 U           26           24           0.35 U           10           26           21           0.29 U           1.3 U           20           0.29 U           1.1 U           2.U           2.U	FS-APS-007           FS-APS-007           (S2.7)(11022018)           11/2/2018           N           Y           32.7           2.8           0.18           2.7           0.291           0.35 U           0.5 U           0.5 U           0.5 U           0.15 U           3           0.22 U           0.49 U           14           2.2           0.26 U           12 U           14           1.2 U           1.8 U	FS-APS-007           FS-APS-007           (74.6)(11052018)           11/5/2018           N           Y           74.6           19           3.1 U           0.54 J           9.1           0.32 U           0.31 U           0.54 U           0.54 U           0.31 U           0.54 U           0.32 U           0.35 U           0.29 U           1.1 U           2.2 U           2.1 U	FS-APS-008           FS-APS-008 (14.9)           (11022018)           11/2/2018           N           Y           14.9           3.1 U           3.1 U           3.1 U           3.1 U           3.1 U           0.31 U           0.55 U           0.31 U           0.55 U           0.31 U           0.19 U           30           2.1           17           1.1]           0.35 U           0.35 U           0.25 U           1.11           0.35 U           0.25 U           1.11           0.25 U           1.12           2.1           7.2           0.29 U           1.1 U           2.U	FS-APS-008 FS-APS-008 (36.9)(11022018) 11/2/2018 N Y 36.9 1.7 U 2.8 U 1.8 4.7 0.29 U 0.29 U 0.29 U 0.29 U 0.29 U 0.35 U 0.32 U 0.49 U 2.500 J 7.1 0.26 U 1.2 U 1.8 U 1.8 U	FS-APS-008           FS-APS-008           (43.2)(11052018)           11/5/2018           N           Y           43.2           1.8           2.9           1.8           5.5           0.3           0.51           0.51           0.51           0.32           0.51           0.32           0.32           0.32           0.32           0.32           0.32           0.32           1.7           26           2.200           7.4           0.27           1.20           1.8	FS-APS-009           FS-APS-009 (14.5)           1(1162018)           11/6/2018           N           Y           145           1           145           0.3           0.3 U           0.52 U           0.18 U           11           1.4 U           9.8           1.1]           0.61 J           8.8           6.6           0.27 U           1.2 U           1.1 U           1.9 U	FS-APS-010         FS-APS-010           FS-APS-010(14-6)(110820         18)           11/8/2018         11/8/2018           N         N           Y         14.6           11/8/2018         0.0           18/9         14.6           0.03         0.0           0.53         0.031           0.77 J         0.53 U           0.25 U         12           2.5 U         11           15 J         0.34 U           12         550 J           8.2         0.28 U           1.2 U         1.1 U           1.9 U         1.9 U	FS-APS-011           FS-APS-           011(1.9)(11082018)           11/8/2018           N           Y           11.9           11.9           2.6           4.6           0.31 U           0.53 U           0.53 U           0.53 U           0.34 U           6.3           2.5           1.5 U           4.6           0.34 U           0.34 U           6.3           2.50           2.3           0.28 U           1.3 U           1.9 U           1.9 U	FS-APS-011 FS-APS-011 FS-APS- 01(22.9)(11092018) 11/9/2018 Y 22.9 	6.93
Analyte Per- Analyte Per- and Polyfluoroalkyl Substances by USEPA Method 537 Modifie NEFICSAA NMeFOSAA Perfluorobutanesulfonic acid (PFBS) Perfluorobutanesulfonic acid (PFBS) Perfluorobetane Sulfonanic (Acid Perfluorobetane Sulfonanic (Acid Perfluorobetane Sulfonanic (PFIRS) Perfluorobetanesulfonic acid (PFIRA) Perfluorobetanesulfonic acid (PFIRA) Perfluorobetanesulfonic acid (PFIRA) Perfluorotetradeanoic Acid (PFIRA) Perfluorotetra	Location ID Sample Du Sample Du Sample Type Validated - Y/N Depth (ft) Unit ng/1 ng/1 ng/1 ng/1 ng/1 ng/1 ng/1 ng/1	IS-APS-006 IS-APS-006 (57.9)(10312018) 10/31/2018 N Y 57.9 1.6 U 2.7 U 0.29 J 8.1 0.39 J 0.27 U 0.88 J 0.27 U 0.86 J 97 0.23 U 0.7 J 2.4 100 J 18 1.8 1.8 1.6 J 0.95 U 1.7 U	FS-APS-006         (77.4)           FS-APS-006 (77.4)         (11012018)           11/1/2018         11/1/2018           11/1/2018         11/1/2018           12         3.1 U           0.2 U         8.2           0.32 U         0.31 U           0.55 U         0.32 U           0.55 U         0.31 U           0.55 U         0.35 U           1.6 I         18           0.29 U         1.3 U           1.1 U         2 U	FS-APS-007 FS-APS-007 (14.5) (11012018) 11/1/2018 N Y 14.5 19 U 3.1 U 9.2 12 U 0.32 U 0.32 U 0.32 U 0.32 U 0.32 U 0.35 U 10 26 24 0.35 U 10 990 J 20 0.29 U 1.3 U 2.1 U 2.2 U	FS-APS-007 FS-APS-007 (32.7)(11022018) 11/2/2018 N Y 23.27	FS-APS-007 FS-APS-007 (74.6)(11052018) 11/5/2018 N Y 74.6 	FS-APS-008           FS-APS-008 (14.9)           (11022018)           11/2/2018           11/2/2018           11/2/2018           11/2/2018           11/2/2018           11/2/2018           11/2/2018           11/2/2018           11/2/2018           11/2           3.1 U           3.7           4.8           0.32 U           30           2.1           1.1           0.35 U           8.4           810 J           7.2           0.29 U           1.3 U           1.1 U           2.U	FS-APS-008 FS-APS-008 (36.9)(11022018) 11/2/2018 N Y 36.9 1.7 U 2.8 U 1.8 4.7 0.29 U 0.28 U 0.5 U 0.5 U 0.5 U 1.7 J 22 1.7 J 23 0.3 U 0.49 U 2.8 U 0.5 U 0.5 U 0.5 U 1.7 J 2.2 U 0.5 U 0.5 U 1.7 J 1.5 J 0.3 2 U 0.49 U 1.5 J 0.5 U 1.7 J 1.5 J 0.5 U 1.5 J 0.5 U 1.7 J 1.5 J 0.5 U 1.7 J 1.5 J 0.5 U 1.5 J 0.5 U 1.7 J 1.5 J 0.5 U 1.5 J 0.5 U 1.5 J 1.7 J 1.5 J 0.5 U 1.5 J 1.5 J 1.5 J 1.5 J 1.5 U 2.5 U 1.5 J 1.5 J 1.5 J 1.5 J 1.5 U 2.5 U 1.5 J 1.5 J 1.5 J 1.5 J 1.5 J 1.5 J 1.5 J 1.5 U 1.5	FS-APS-008           FS-APS-008           (43.2)(11052018)           11/5/2018           N           Y           43.2           1.8           2.9           1.8           2.9 U           0.3 U           0.51 U           0.51 U           0.51 U           0.29 U           0.32 U           0.88 J           26           2           0.32 U           0.32 U           0.32 U           1.8 U           2.27 U           1.2 U           1.8 U	FS-APS-009 IS-APS-009 (14.5) (11062018) 11/6/2018 N Y 145 18 U 2.9 U 6.4 4.4 0.3 U 0.52 U 0.52 U 0.18 U 11 1.4 U 9.8 1.1 1.4 U 9.8 1.1 1.4 U 9.8 1.1 1.4 U 9.8 1.1 1.4 U 9.8 1.1 1.4 U 9.8 1.1 1.4 U 9.8 1.1 1.1 1.4 U 9.8 1.1 1.4 U 1.4 U 9.8 1.1 1.4 U 1.4 U 9.8 1.1 1.4 U 1.4 U 9.8 1.1 1.4 U 1.4 U 1.5 U 1.4 U 1.5 U 1.	FS-APS-010 FS-APS-010 FS-APS- 010(14.6)(11080) 18) 11/8/2018 N Y 14.6 18 U 3 U 19 6 0.31 U 0.31 U 0.31 U 0.33 U 0.33 U 0.33 U 12 2.5 U 11 1.5 J 0.34 U 1.2 U 1.1 J 8.2 0.28 U 1.2 U 1.3 U 1.2 U 1.3 U 1.2 U 1.3 U 1.5 U	FS-APS-011 FS-APS- 011(11.9)(11082018) 11/8/2018 N Y 11.9 11.9 11.9 2.6 4.6 0.31 U 0.37 J 0.53 U 0.18 U 5.5 1.5 U 4.6 0.43 J 0.34 U 6.3 250 2.3 0.28 U 1.3 U 1.3 U 1.3 U 1.3 U	FS-APS-011 FS-APS- 011(22)9(11092018) 11/9/2018 N Y 22.9 1.8 U 3 U 4.7 4.6 0.3 U 0.3 U 0.3 U 0.5 2 U 0.1 8 U 21 2.1 U 14 0.37 1 0.33 U 0.21 U 14 0.33 U 0.21 U 15 860 1 5.3 0.28 U 1.2 U 1.9 U	6.93
Analyte Per- and Polyfluoroalkyl Substances by USEPA Method 537 Modifie NEHOSAA NMeFOSAA Perfluorobutanesulfonic acid (PFBS) Perfluorobutanesulfonic Acid Perfluorobutanesulfonic Acid Perfluorobetanoic acid (PFDA) Perfluorobetanoic acid (PFDA) Perfluorobetanoic acid (PFDA) Perfluorobetanoic acid (PFIAS) Perfluorobetanoic acid (PFIAA) Perfluoroothesatolic acid (PFIAA) Perfluoroothesatolic acid (PFIAA) Perfluorothesatonic acid (PFIA) Perfluorothesatonic acid (PFIA) Perfluorothesanoic acid (PFIA) Perfluorothiceanoic Acid (PFIA) Perfluorothiceanoic Acid (PFIA) Perfluorothiceanoic Acid (PFIA) SODIUM 1H,112,12,12+PERFLUORODECANE SULFONATE (k-2) SODIUM 1H,112,12,12+PERFLUORODCTANE SULFONATE (k-2) Total Organic Carbon by Llogd Kahn Method	Location ID Sample Date Sample Type Validated - Y/N Depth (ft) Unit of ng/1 ng/1 ng/1 ng/1 ng/1 ng/1 ng/1 ng/1	IS-APS-006 IS-APS-006 (57.9)(10312018) 10/31/2018 N Y 57.9 57.9 1.6 U 2.7 U 0.27 J 0.27 J 0.27 J 0.27 J 0.27 U 0.88 J 0.27 U 0.86 J 97 0.23 U 0.7 J 2.4 1.6 U 1.8 1.3 J 0.95 U 1.7 U 1.7 U	FS-APS-006           FS-APS-006 (77.4)           (11012018)           11/1/2018           11/1/2018           11/1/2018           11/1/2018           11/1/2018           0.31 U           0.22 U           8.2           0.32 U           0.35 U           1.6 J           18           0.29 U           1.1 U           2 U           2 U	FS-APS-007           FS-APS-007 (14.5) (11012018)           11/1/2018           N           Y           1.9 U           3.1 U           92           12 U           0.32 U           0.44 J           0.55 U           26           24           0.35 U           10           26           21           0.29 U           1.3 U           20           0.29 U           1.3 U           2.2 U	FS-APS-007           FS-APS-007           (S2.7)(11022018)           11/2/2018           N           Y           32.7           2.8           0.18           2.7           0.291           0.35 U           0.5 U           0.5 U           0.5 U           0.15 U           3           0.22 U           0.49 U           14           2.2           0.26 U           12 U           14           1.2 U           1.8 U	FS-APS-007           FS-APS-007           (74.6)(11052018)           11/5/2018           N           Y           74.6           19           3.1 U           0.54 J           9.1           0.32 U           0.31 U           0.54 U           0.54 U           0.31 U           0.54 U           0.32 U           0.35 U           0.29 U           1.1 U           2.2 U           2.1 U	FS-APS-008           FS-APS-008 (14.9)           (11022018)           11/2/2018           N           Y           14.9           3.1 U           3.1 U           3.1 U           3.1 U           3.1 U           0.31 U           0.55 U           0.31 U           0.55 U           0.31 U           0.19 U           30           2.1           17           1.1]           0.35 U           0.35 U           8.0           7.2           0.29 U           1.1 U           2.U	FS-APS-008 FS-APS-008 (36.9)(11022018) 11/2/2018 N Y 36.9 1.7 U 2.8 U 1.8 4.7 0.29 U 0.29 U 0.29 U 0.29 U 0.29 U 0.35 U 0.32 U 0.49 U 2.500 J 7.1 0.26 U 1.2 U 1.8 U 1.8 U	FS-APS-008           FS-APS-008           (43.2)(11052018)           11/5/2018           N           Y           43.2           1.8           2.9           1.8           5.5           0.3           0.51           0.51           0.51           0.32           0.51           0.32           0.32           0.32           0.32           0.32           0.32           0.32           1.7           26           2.200           7.4           0.27           1.20           1.8	FS-APS-009           FS-APS-009 (14.5)           1(1162018)           11/6/2018           N           Y           145           1           145           0.3           0.3 U           0.52 U           0.18 U           11           1.4 U           9.8           1.1]           0.61 J           8.8           6.6           0.27 U           1.2 U           1.1 U           1.9 U	FS-APS-010         FS-APS-010           FS-APS-010(14-6)(110820         18)           11/8/2018         11/8/2018           N         N           Y         14.6           11/8/2018         0.0           18/9         14.6           0.03         0.0           0.53         0.031           0.77 J         0.53 U           0.25 U         12           2.5 U         11           15 J         0.34 U           12         550 J           8.2         0.28 U           1.2 U         1.1 U           1.9 U         1.9 U	FS-APS-011           FS-APS-           011(1.9)(11082018)           11/8/2018           N           Y           11.9           11.9           2.6           4.6           0.31 U           0.53 U           0.53 U           0.53 U           0.34 U           6.3           2.5           1.5 U           4.6           0.34 U           0.34 U           6.3           2.50           2.3           0.28 U           1.3 U           1.9 U           1.9 U	FS-APS-011 FS-APS-011 FS-APS- 01(22.9)(11092018) 11/9/2018 Y 22.9 	6.93

Notes and Abbreviations ng/L - nanograms per liter mg/L - milligrams per liter U - Compound not detected J - Estimated value N - Primary sample FD - Field duplicate sample na - Sample not analyzed for this parameter Bold value indicates detected value

# Table 9 Analytical Results for PFAS Total Organicn Carbon, and pH for Groundwater Samples from Monitoring Wells Former Oak-Mitsui - First Street

<b></b>													
	Location ID	FS-MW-001A FS-MW-001A (14.5)-	FS-MW-002A	FS-MW-002A	FS-MW-002C - FS-MW-002C (135)- I	FS-MW-003A	FS-MW-003B	FS-MW-005A FS-MW-005A (14.5)-	FS-MW-005B	FS-MW-005C FS-MW-005C (82.5)-	FS-MW-007A FS-MW-007A	FS-MW-007B	FS-MW-007C FS-MW-007C (77.5)-
	Sample ID	07252019	DUP-07242019	07242019	07242019	07242019	07252019	07242019	07242019	07242019	(15)(07232019)	07242019	07242019
	Sample Date	7/25/2019	7/24/2019	7/24/2019	7/24/2019	7/24/2019	7/25/2019	7/24/2019	7/24/2019	7/24/2019	7/23/2019	7/24/2019	7/24/2019
	Sample Type	N	FD	N	N	N	Ň	N	N	N	N	N	N
,	Validated - Y/N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	START_DEPTH	14.5	11.5	11.5	135	14.5	89.5	14.5	45.5	82.5	15	55	77.5
Analyte	Unit												
Per- and Polyfluoroalkyl Substances by USEPA Method 537 Modifi	ed												
NEtFOSAA	ng/l	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.7 U	1.8 U	1.8 U	1.8 U	1.7 U	1.7 U	1.8 U
NMeFOSAA	ng/l	2.9 U	3 U	3 U	3 U	2.9 U	2.7 U	3 U	2.9 U	2.9 U	2.9 U	2.8 U	3 U
Perfluorobutanesulfonic acid (PFBS)	ng/l	3.7	8	7.8	0.19 U	7.2	0.37 J	7.9	0.65 J	0.68 J	3.7	0.35 J	0.31 J
Perfluorobutanoic Acid	ng/l	6	6.4	7.7	0.95 J	6.5	8.5	11	8.6	7.4	9.5	8.3	11
Perfluorodecane Sulfonic Acid	ng/l	0.3 U	0.31 U	0.31 U	0.31 U	0.3 U	0.28 U	0.3 U	0.3 U	0.3 U	0.29 U	0.29 U	0.31 U
Perfluorodecanoic acid (PFDA)	ng/l	0.29 U	0.3 U	0.3 U	0.3 U	0.29 U	0.27 U	0.3 U	0.29 U	0.29 U	0.29 U	0.28 U	0.42 J
Perfluorododecanoic acid (PFDoA)	ng/l	0.51 U	0.53 U	0.53 U	0.53 U	0.52 U	0.48 U	0.52 U	0.51 U	0.51 U	0.51 U	0.5 U	0.53 U
Perfluoroheptane Sulfonate (PFHPS)	ng/l	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.17 U	0.18 U	0.18 U	0.18 U	0.17 U	0.17 U	0.18 U
Perfluoroheptanoic acid (PFHpA)	ng/l	16	21	22	0.24 U	20	130	24	91	57	21	100	27
Perfluorohexanesulfonic acid (PFHxS)	ng/l	2.2 U	1.6 U	1.6 U	0.31 U	1.4 U	0.48 U	2 U	0.65 U	0.8 U	8	0.54 U	0.59 U
Perfluorohexanoic acid (PFHxA)	ng/l	13	19	18	0.56 U	16	120	21	90	67	13	100	66
Perfluorononanoic acid (PFNA)	ng/l	1.4 J	1.7 J	1.5 J	0.26 U	1.3 J	0.24 U	1.2 J	0.42 J	0.25 U	1.8	0.25 U	0.52 J
Perfluorooctane Sulfonamide (FOSA)	ng/l	0.33 U	0.34 U	0.34 U	0.34 U	0.33 U	0.31 U	0.33 U	0.32 U	0.32 U	0.32 U	0.32 U	0.34 U
Perfluorooctanesulfonic acid (PFOS)	ng/l	5.1	7.1	7.2	0.52 U	7.2	0.48 U	8.5	0.5 U	0.5 U	4.7	0.49 J	0.99 J
Perfluorooctanoic acid (PFOA)	ng/l	980	840 J	850 J	0.82 U	830 J	2200	650 J	2200 J	1300 J	720	2000 J	450 J
Perfluoropentanoic Acid (PFPeA)	ng/l	6.5	12	11	0.47 U	11	17	9	15	12	6.8	17	17
Perfluorotetradecanoic acid (PFTA)	ng/l	0.27 U	0.28 U	0.28 U	0.28 U	0.27 U	0.26 U	0.28 U	0.27 U	0.27 U	0.27 U	0.27 U	0.28 U
Perfluorotridecanoic Acid (PFTriA)	ng/l	1.2 U	1.2 U	1.2 U	1.3 U	1.2 U	1.1 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.3 U
Perfluoroundecanoic Acid (PFUnA)	ng/l	1 U	1.1 U	1.1 UJ	1.1 U	1 U	0.97 U	1 UJ	1 U	1 U	1 U	1 U	1.1 U
SODIUM 1H,1H,2H,2H-PERFLUORODECANE SULFONATE (8:2)	ng/l	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U
SODIUM 1H,1H,2H,2H-PERFLUOROOCTANE SULFONATE (6:2)	ng/l	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.8 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U
Total Organic Carbon by Lloyd Kahn Method			•										
Total Organic Carbon	mg/l	2.1	0.84 J	0.82 J	1	1	1 U	1.1	1 U	1 U	2.4 J	1 U	0.66 J
pH By Standard Method 9040													
pH	pH units	7.36	7.33	7.35	7.69	7.24	7.83	7.09	7.82	7.77	7.64	7.86	7.88
	Location ID	FS-MW-008B	FS-MW-008B	FS-MW-009C	FS-MW-011A	FS-MW-012A	FS-MW-012B	FS-MW-012C	FS-MW-013A	FS-MW-013B	FS-MW-1	FS-MW-3	FS-MW-4
							1				FS-MW-1		
			FS-MW-008B	FS-MW-009C	FS-MW-011A (18.5)-	FS-MW-012A	FS-MW-12B	FS-MW-012C	FS-MW-13A (15.5)-	FS-MW-13B (30.5)-	(17.75)(07232019	FS-MW-3	FS-MW-4
	Sample ID	DUP-07232019	(37.5)-07232019	(97.3)(07232019)	07242019	(12.5)(07232019)	(45)(07232019)	(62.5)(07232019)	07222019	07222019	)	(14.25)(07232019)	(13.57)(07252019
	Sample Date	7/23/2019	7/23/2019	7/23/2019	7/24/2019	7/23/2019	7/23/2019	7/23/2019	7/22/2019	7/22/2019	7/23/2019	7/23/2019	7/25/2019
	Sample Type	FD	N	N	N	N	N	N	N	N	N	N	N V
	Validated - Y/N	ү 37.5	ү 37.5	ү 97.3	ү 18.5	ү 12.5	¥ 45	ү 62.5	ү 15.5	ү 30.5	ү 17.75	ү 14.25	ү 13.57
Analyte	START_DEPTH Unit	57.5	57.5	97.3	16.5	12.5	43	62.3	15.5	50.5	17.75	14.23	15.57
					<u> </u>		<u> </u>						
Per- and Polyfluoroalkyl Substances by USEPA Method 537 Modified		101	101	101	1.8 U	101			4 7 1				
NEtFOSAA NMeFOSAA	ng/l	1.8 U 2.9 U	1.8 U	1.8 U	1 1811			1011		1 7 1	1011	1011	1 7 1
Perfluorobutanesulfonic acid (PFBS)	ng/l		2011			1.8 U	1.8 U	1.8 U	1.7 U	1.7 U	1.8 U	1.8 U	1.7 U
	$n\sigma/1$		2.9 U	3 U	3 U	2.9 U	2.9 U	2.9 U	2.7 U	2.8 U	2.9 U	2.9 U	2.8 U
	ng/l	1.6 J	1.7 J	3 U 0.3 J	3 U 10	2.9 U 5.3	2.9 U 5.5	2.9 U 0.54 J	2.7 U 7.3	2.8 U 5.8	2.9 U 7.3	2.9 U 7.2	2.8 U 12
Perfluorobutanoic Acid Perfluorodecane Sulfonic Acid	ng/l	1.6 J 4.7	1.7 J 4.7	3 U 0.3 J 7.8	3 U 10 4.1	2.9 U 5.3 8	2.9 U 5.5 9.9	2.9 U 0.54 J 9.3	2.7 U 7.3 8.7	2.8 U 5.8 6.7	2.9 U 7.3 8.8	2.9 U 7.2 6	2.8 U 12 5.3
Perfluorodecane Sulfonic Acid	ng/l ng/l	<b>1.6 J</b> <b>4.7</b> 0.3 U	<b>1.7 J</b> <b>4.7</b> 0.3 U	3 U 0.3 J 7.8 0.31 U	3 U 10 4.1 0.31 U	2.9 U 5.3 8 0.3 U	2.9 U 5.5 9.9 0.3 U	2.9 U 0.54 J 9.3 0.3 U	2.7 U 7.3 8.7 0.28 U	2.8 U 5.8 6.7 0.29 U	2.9 U 7.3 8.8 0.3 U	2.9 U 7.2 6 0.3 U	2.8 U 12 5.3 0.29 U
Perfluorodecane Sulfonic Acid Perfluorodecanoic acid (PFDA)	ng/l ng/l ng/l	1.6 J         4.7           0.3 U         0.29 U	1.7 J           4.7           0.3 U           0.29 U	3 U 0.3 J 7.8 0.31 U 0.3 U	3 U 10 4.1 0.31 U 0.3 U	2.9 U 5.3 8 0.3 U 0.56 J	2.9 U 5.5 9.9 0.3 U 0.29 U	2.9 U 0.54 J 9.3 0.3 U 0.29 U	2.7 U 7.3 8.7 0.28 U 0.27 U	2.8 U 5.8 6.7 0.29 U 0.28 U	2.9 U 7.3 8.8 0.3 U 0.29 U	2.9 U 7.2 6 0.3 U 0.29 U	2.8 U 12 5.3 0.29 U 0.28 U
Perfluorodecane Sulfonic Acid Perfluorodecanoic acid (PFDA) Perfluorododecanoic acid (PFDoA)	ng/l ng/l ng/l ng/l	<b>1.6 J</b> <b>4.7</b> 0.3 U 0.29 U 0.51 U	1.7 J           4.7           0.3 U           0.29 U           0.51 U	3 U 0.3 J 7.8 0.31 U 0.3 U 0.53 U	3 U 10 4.1 0.31 U 0.3 U 0.53 U	2.9 U 5.3 8 0.3 U 0.56 J 0.52 U	2.9 U 5.5 9.9 0.3 U 0.29 U 0.52 U	2.9 U 0.54 J 9.3 0.3 U 0.29 U 0.51 U	2.7 U 7.3 8.7 0.28 U 0.27 U 0.49 U	2.8 U 5.8 6.7 0.29 U 0.28 U 0.5 U	2.9 U 7.3 8.8 0.3 U 0.29 U 0.51 U	2.9 U 7.2 6 0.3 U 0.29 U 0.51 U	2.8 U 12 5.3 0.29 U 0.28 U 0.5 U
Perfluorodecane Sulfonic Acid Perfluorodecanoic acid (PFDA) Perfluorododecanoic acid (PFDoA) Perfluoroheptane Sulfonate (PFHPS)	ng/l ng/l ng/l ng/l ng/l	1.6 J         4.7           0.3 U         0.29 U           0.51 U         0.18 U	1.7 J           4.7           0.3 U           0.29 U           0.51 U           0.18 U	3 U 0.3 J 7.8 0.31 U 0.3 U 0.53 U 0.18 U	3 U 10 4.1 0.31 U 0.3 U 0.53 U 0.18 U	2.9 U 5.3 8 0.3 U 0.56 J 0.52 U 0.18 U	2.9 U 5.5 9.9 0.3 U 0.29 U 0.52 U 0.18 U	2.9 U 0.54 J 9.3 0.3 U 0.29 U 0.51 U 0.18 U	2.7 U 7.3 8.7 0.28 U 0.27 U 0.49 U 0.17 U	2.8 U 5.8 6.7 0.29 U 0.28 U 0.5 U 0.17 U	2.9 U 7.3 8.8 0.3 U 0.29 U 0.51 U 0.18 U	2.9 U 7.2 6 0.3 U 0.29 U 0.51 U 0.18 J	2.8 U 12 5.3 0.29 U 0.28 U 0.5 U 0.17 U
Perfluorodecane Sulfonic Acid Perfluorodecanoic acid (PFDA) Perfluorododecanoic acid (PFDoA) Perfluoroheptane Sulfonate (PFHPS) Perfluoroheptanoic acid (PFHpA)	ng/l ng/l ng/l ng/l ng/l ng/l	1.6 J         4.7         0.3 U         0.29 U         0.51 U         0.18 U         35	1.7 J           4.7           0.3 U           0.29 U           0.51 U           0.18 U           35	3 U 0.3 J 7.8 0.31 U 0.3 U 0.53 U 0.18 U 99	3 U 10 4.1 0.31 U 0.3 U 0.53 U	2.9 U 5.3 8 0.3 U 0.56 J 0.52 U 0.18 U 29	2.9 U 5.5 9.9 0.3 U 0.29 U 0.52 U 0.18 U 35	2.9 U 0.54 J 9.3 0.3 U 0.29 U 0.51 U 0.18 U 26	2.7 U 7.3 8.7 0.28 U 0.27 U 0.49 U 0.17 U 51	2.8 U 5.8 6.7 0.29 U 0.28 U 0.5 U 0.17 U 31	2.9 U 7.3 8.8 0.3 U 0.29 U 0.51 U 0.18 U 44	2.9 U 7.2 6 0.3 U 0.29 U 0.51 U 0.18 J 17	2.8 U 12 5.3 0.29 U 0.28 U 0.5 U 0.17 U 14
Perfluorodecane Sulfonic Acid Perfluorodecanoic acid (PFDA) Perfluorododecanoic acid (PFDoA) Perfluoroheptane Sulfonate (PFHPS) Perfluoroheptanoic acid (PFHpA) Perfluorohexanesulfonic acid (PFHxS)	ng/l ng/l ng/l ng/l ng/l ng/l ng/l	1.6 J         4.7         0.3 U         0.29 U         0.51 U         0.18 U         35         1.4 U	1.7 J         4.7         0.3 U         0.29 U         0.51 U         0.18 U         35         1.4 U	3 U 0.3 J 7.8 0.31 U 0.3 U 0.53 U 0.18 U 99 0.46 U	3 U         10         4.1         0.31 U         0.3 U         0.53 U         0.18 U         15         3	2.9 U 5.3 8 0.3 U 0.56 J 0.52 U 0.18 U 29 1.6 U	2.9 U 5.5 9.9 0.3 U 0.29 U 0.52 U 0.18 U 35 2.1 U	2.9 U 0.54 J 9.3 0.3 U 0.29 U 0.51 U 0.18 U 26 0.86 U	2.7 U 7.3 8.7 0.28 U 0.27 U 0.49 U 0.17 U 51 3.2 U	2.8 U 5.8 6.7 0.29 U 0.28 U 0.5 U 0.17 U 31 1.5 U	2.9 U 7.3 8.8 0.3 U 0.29 U 0.51 U 0.18 U 44 2.2 U	2.9 U 7.2 6 0.3 U 0.29 U 0.51 U 0.18 J 17 1.7 U	2.8 U 12 5.3 0.29 U 0.28 U 0.5 U 0.17 U 14 1.8 U
Perfluorodecane Sulfonic Acid Perfluorodecanoic acid (PFDA) Perfluorododecanoic acid (PFDoA) Perfluoroheptane Sulfonate (PFHPS) Perfluoroheptanoic acid (PFHpA) Perfluorohexanesulfonic acid (PFHxS) Perfluorohexanoic acid (PFHxA)	ng/l ng/l ng/l ng/l ng/l ng/l ng/l ng/l	1.6 J         4.7         0.3 U         0.29 U         0.51 U         0.18 U         35         1.4 U         23	1.7 J         4.7         0.3 U         0.29 U         0.51 U         0.18 U         35         1.4 U         22	3 U 0.3 J 7.8 0.31 U 0.3 U 0.53 U 0.18 U 99 0.46 U 89	3 U         10         4.1         0.31 U         0.3 U         0.53 U         0.18 U         15         3         14	2.9 U 5.3 8 0.3 U 0.56 J 0.52 U 0.18 U 29 1.6 U 23	2.9 U 5.5 9.9 0.3 U 0.29 U 0.52 U 0.18 U 35 2.1 U 30	2.9 U 0.54 J 9.3 0.3 U 0.29 U 0.51 U 0.18 U 26 0.86 U 65	2.7 U 7.3 8.7 0.28 U 0.27 U 0.49 U 0.17 U 51 3.2 U 36	2.8 U 5.8 6.7 0.29 U 0.28 U 0.5 U 0.17 U 31 1.5 U 24	2.9 U 7.3 8.8 0.3 U 0.29 U 0.51 U 0.18 U 44 2.2 U 30	2.9 U 7.2 6 0.3 U 0.29 U 0.51 U 0.18 J 17 1.7 U 16	2.8 U 12 5.3 0.29 U 0.28 U 0.5 U 0.17 U 14 1.8 U 13
Perfluorodecane Sulfonic Acid Perfluorodecanoic acid (PFDA) Perfluorododecanoic acid (PFDoA) Perfluoroheptane Sulfonate (PFHPS) Perfluoroheptanoic acid (PFHpA) Perfluorohexanesulfonic acid (PFHxS) Perfluorohexanoic acid (PFHxA) Perfluorononanoic acid (PFNA)	ng/l ng/l ng/l ng/l ng/l ng/l ng/l ng/l	1.6 J         4.7         0.3 U         0.29 U         0.51 U         0.18 U         35         1.4 U         23         1.4 J	1.7 J         4.7         0.3 U         0.29 U         0.51 U         0.18 U         35         1.4 U         22         1.4 J	3 U 0.3 J 7.8 0.31 U 0.3 U 0.53 U 0.18 U 99 0.46 U 89 0.26 U	3 U         10         4.1         0.31 U         0.3 U         0.53 U         0.18 U         15         3         14         0.47 J	2.9 U 5.3 8 0.3 U 0.56 J 0.52 U 0.18 U 29 1.6 U 23 2	2.9 U 5.5 9.9 0.3 U 0.29 U 0.52 U 0.18 U 35 2.1 U 30 1.8 J	2.9 U 0.54 J 9.3 0.3 U 0.29 U 0.51 U 0.18 U 26 0.86 U 65 0.25 U	2.7 U 7.3 8.7 0.28 U 0.27 U 0.49 U 0.17 U 51 3.2 U 36 0.96 J	2.8 U 5.8 6.7 0.29 U 0.28 U 0.5 U 0.17 U 31 1.5 U 24 0.51 J	2.9 U 7.3 8.8 0.3 U 0.29 U 0.51 U 0.18 U 44 2.2 U 30 1 J	2.9 U 7.2 6 0.3 U 0.29 U 0.51 U 0.18 J 17 1.7 U 1.6 1.1 J	2.8 U 12 5.3 0.29 U 0.28 U 0.5 U 0.17 U 14 1.8 U 13 1 J
Perfluorodecane Sulfonic Acid Perfluorodecanoic acid (PFDA) Perfluorododecanoic acid (PFDoA) Perfluoroheptane Sulfonate (PFHPS) Perfluoroheptanoic acid (PFHpA) Perfluorohexanesulfonic acid (PFHxS) Perfluorohexanoic acid (PFHxA) Perfluorononanoic acid (PFNA) Perfluorononanoic acid (PFNA)	ng/l ng/l ng/l ng/l ng/l ng/l ng/l ng/l	1.6 J         4.7         0.3 U         0.29 U         0.51 U         0.18 U         35         1.4 U         23         1.4 J         0.33 U	1.7 J         4.7         0.3 U         0.29 U         0.51 U         0.18 U         35         1.4 U         22         1.4 J         0.32 U	3 U 0.3 J 7.8 0.31 U 0.3 U 0.53 U 0.18 U 99 0.46 U 89 0.26 U 0.34 U	3 U         10         4.1         0.31 U         0.3 U         0.53 U         0.18 U         15         3         14         0.34 U	2.9 U 5.3 8 0.3 U 0.56 J 0.52 U 0.18 U 29 1.6 U 23 2 0.33 U	2.9 U 5.5 9.9 0.3 U 0.29 U 0.52 U 0.18 U 35 2.1 U 30 1.8 J 0.33 U	2.9 U 0.54 J 9.3 0.3 U 0.29 U 0.51 U 0.18 U 26 0.86 U 65 0.25 U 0.32 U	2.7 U 7.3 8.7 0.28 U 0.27 U 0.49 U 0.17 U 51 3.2 U 36 0.96 J 0.31 U	2.8 U 5.8 6.7 0.29 U 0.28 U 0.5 U 0.17 U 31 1.5 U 24 0.51 J 0.32 U	2.9 U 7.3 8.8 0.3 U 0.29 U 0.51 U 0.18 U 44 2.2 U 30 1 J 0.33 U	2.9 U 7.2 6 0.3 U 0.29 U 0.51 U 0.18 J 17 1.7 U 16 1.1 J 0.33 U	2.8 U 12 5.3 0.29 U 0.28 U 0.5 U 0.17 U 14 1.8 U 13 1 J 0.32 U
Perfluorodecane Sulfonic Acid Perfluorodecanoic acid (PFDA) Perfluorododecanoic acid (PFDoA) Perfluoroheptane Sulfonate (PFHPS) Perfluoroheptanoic acid (PFHpA) Perfluorohexanesulfonic acid (PFHxS) Perfluorohexanoic acid (PFHxA) Perfluorononanoic acid (PFNA) Perfluorononanoic acid (PFNA) Perfluorooctane Sulfonamide (FOSA) Perfluorooctanesulfonic acid (PFOS)	ng/l ng/l ng/l ng/l ng/l ng/l ng/l ng/l	1.6 J         4.7         0.3 U         0.29 U         0.51 U         0.18 U         35         1.4 U         23         1.4 J         0.33 U         0.73 J	1.7 J         4.7         0.3 U         0.29 U         0.51 U         0.18 U         35         1.4 U         22         1.4 J         0.32 U         0.79 J	3 U 0.3 J 7.8 0.31 U 0.3 U 0.53 U 0.18 U 99 0.46 U 89 0.26 U 0.34 U 0.52 UJ	3 U         10         4.1         0.31 U         0.3 U         0.53 U         0.18 U         15         3         14         0.47 J         0.34 U         1.8 J	2.9 U 5.3 8 0.3 U 0.56 J 0.52 U 0.18 U 29 1.6 U 23 2 0.33 U 11	2.9 U 5.5 9.9 0.3 U 0.29 U 0.52 U 0.18 U 35 2.1 U 30 1.8 J 0.33 U 8.2	2.9 U 0.54 J 9.3 0.3 U 0.29 U 0.51 U 0.18 U 26 0.86 U 65 0.25 U 0.32 U 1.3 J	2.7 U 7.3 8.7 0.28 U 0.27 U 0.49 U 0.17 U 51 3.2 U 36 0.96 J 0.31 U 5.6 J	2.8 U 5.8 6.7 0.29 U 0.28 U 0.5 U 0.5 U 0.17 U 31 1.5 U 24 0.51 J 0.32 U 1.1 J	2.9 U 7.3 8.8 0.3 U 0.29 U 0.51 U 0.18 U 44 2.2 U 30 1 J 0.33 U 6.6 J	2.9 U 7.2 6 0.3 U 0.29 U 0.51 U 0.18 J 17 1.7 U 16 1.1 J 0.33 U 8.6	2.8 U 12 5.3 0.29 U 0.28 U 0.5 U 0.17 U 14 1.8 U 13 1 J 0.32 U 8.6
Perfluorodecane Sulfonic Acid Perfluorodecanoic acid (PFDA) Perfluorododecanoic acid (PFDoA) Perfluoroheptane Sulfonate (PFHPS) Perfluoroheptanoic acid (PFHpA) Perfluorohexanesulfonic acid (PFHxS) Perfluorohexanoic acid (PFHxA) Perfluorononanoic acid (PFNA) Perfluorooctane Sulfonamide (FOSA) Perfluorooctanesulfonic acid (PFOS) Perfluorooctanesulfonic acid (PFOS)	ng/l ng/l ng/l ng/l ng/l ng/l ng/l ng/l	1.6 J         4.7         0.3 U         0.29 U         0.51 U         0.18 U         35         1.4 U         23         1.4 J         0.33 U         0.73 J         2100	1.7 J         4.7         0.3 U         0.29 U         0.51 U         0.18 U         35         1.4 U         22         1.4 J         0.32 U         0.79 J         2200	3 U 0.3 J 7.8 0.31 U 0.3 U 0.53 U 0.18 U 99 0.46 U 89 0.26 U 0.34 U 0.52 UJ 1900	3 U         10         4.1         0.31 U         0.3 U         0.53 U         0.18 U         15         3         14         0.47 J         0.34 U         1.8 J         360	2.9 U 5.3 8 0.3 U 0.56 J 0.52 U 0.18 U 29 1.6 U 23 2 0.33 U 11 770	2.9 U 5.5 9.9 0.3 U 0.29 U 0.52 U 0.18 U 35 2.1 U 30 1.8 J 0.33 U 8.2 820	2.9 U 0.54 J 9.3 0.3 U 0.29 U 0.51 U 0.18 U 26 0.86 U 65 0.25 U 0.32 U 1.3 J 420	2.7 U 7.3 8.7 0.28 U 0.27 U 0.49 U 0.17 U 51 3.2 U 36 0.96 J 0.31 U 5.6 J 1100	2.8 U 5.8 6.7 0.29 U 0.28 U 0.5 U 0.17 U 31 1.5 U 24 0.51 J 0.32 U 1.1 J 780	2.9 U 7.3 8.8 0.3 U 0.29 U 0.51 U 0.18 U 44 2.2 U 30 1 J 0.33 U 6.6 J 1200	2.9 U 7.2 6 0.3 U 0.29 U 0.51 U 0.18 J 17 1.7 U 16 1.1 J 0.33 U 8.6 800	2.8 U 12 5.3 0.29 U 0.28 U 0.5 U 0.17 U 14 1.8 U 13 1 J 0.32 U 8.6 550
Perfluorodecane Sulfonic Acid Perfluorodecanoic acid (PFDA) Perfluorododecanoic acid (PFDoA) Perfluoroheptane Sulfonate (PFHPS) Perfluoroheptanoic acid (PFHpA) Perfluorohexanesulfonic acid (PFHxS) Perfluorohexanoic acid (PFHxA) Perfluorononanoic acid (PFNA) Perfluorooctane Sulfonamide (FOSA) Perfluorooctane Sulfonic acid (PFOS) Perfluorooctanoic acid (PFOA) Perfluoropentanoic Acid (PFPeA)	ng/l ng/l ng/l ng/l ng/l ng/l ng/l ng/l	1.6 J         4.7         0.3 U         0.29 U         0.51 U         0.18 U         35         1.4 U         23         1.4 J         0.33 U         0.73 J         2100         6.4	1.7 J         4.7         0.3 U         0.29 U         0.51 U         0.18 U         35         1.4 U         22         1.4 J         0.32 U         0.79 J         2200         6.2	3 U 0.3 J 7.8 0.31 U 0.3 U 0.53 U 0.18 U 99 0.46 U 89 0.26 U 0.34 U 0.52 UJ 1900 15	3 U         10         4.1         0.31 U         0.3 U         0.53 U         0.18 U         15         3         14         0.34 U         1.8 J         360         4.1	2.9 U 5.3 8 0.3 U 0.56 J 0.52 U 0.18 U 29 1.6 U 23 2 0.33 U 11 770 14	2.9 U 5.5 9.9 0.3 U 0.29 U 0.52 U 0.18 U 35 2.1 U 30 1.8 J 0.33 U 8.2 820 17	2.9 U 0.54 J 9.3 0.3 U 0.29 U 0.51 U 0.51 U 0.18 U 26 0.86 U 65 0.25 U 0.32 U 1.3 J 420 16	2.7 U 7.3 8.7 0.28 U 0.27 U 0.49 U 0.17 U 51 3.2 U 36 0.96 J 0.31 U 5.6 J 1100 11	2.8 U 5.8 6.7 0.29 U 0.28 U 0.5 U 0.17 U 31 1.5 U 24 0.51 J 0.32 U 1.1 J 780 7.6 U	2.9 U 7.3 8.8 0.3 U 0.29 U 0.51 U 0.18 U 44 2.2 U 30 1 J 0.33 U 6.6 J 1200 14	2.9 U 7.2 6 0.3 U 0.29 U 0.51 U 0.18 J 17 1.7 U 16 1.1 J 0.33 U 8.6 800 14	2.8 U 12 5.3 0.29 U 0.28 U 0.5 U 0.17 U 14 1.8 U 13 1 J 0.32 U 8.6 550 8.2
Perfluorodecane Sulfonic Acid Perfluorodecanoic acid (PFDA) Perfluorododecanoic acid (PFDoA) Perfluoroheptane Sulfonate (PFHPS) Perfluoroheptanoic acid (PFHpA) Perfluorohexanesulfonic acid (PFHxS) Perfluorohexanoic acid (PFHxA) Perfluorononanoic acid (PFNA) Perfluorooctane Sulfonamide (FOSA) Perfluorooctanesulfonic acid (PFOS) Perfluorooctanesulfonic acid (PFOS) Perfluoropentanoic Acid (PFPeA) Perfluorotetradecanoic acid (PFTA)	ng/l	1.6 J         4.7         0.3 U         0.29 U         0.51 U         0.18 U         35         1.4 U         23         1.4 J         0.33 U         0.73 J         2100         6.4         0.27 U	1.7 J         4.7         0.3 U         0.29 U         0.51 U         0.51 U         35         1.4 U         22         1.4 J         0.32 U         0.79 J         2200         6.2         0.27 U	3 U 0.3 J 7.8 0.31 U 0.3 U 0.53 U 0.18 U 99 0.46 U 89 0.26 U 0.34 U 0.52 UJ 1900 15 0.28 U	3 U         10         4.1         0.31 U         0.3 U         0.53 U         0.53 U         0.18 U         15         3         14         0.47 J         0.34 U         1.8 J         360         4.1         0.28 U	2.9 U 5.3 8 0.3 U 0.56 J 0.52 U 0.18 U 29 1.6 U 23 2 0.33 U 11 770 14 0.27 U	2.9 U 5.5 9.9 0.3 U 0.29 U 0.52 U 0.18 U 35 2.1 U 30 1.8 J 0.33 U 8.2 820 17 0.27 U	2.9 U 0.54 J 9.3 0.3 U 0.29 U 0.51 U 0.18 U 26 0.86 U 65 0.25 U 0.32 U 1.3 J 420 16 0.27 U	2.7 U 7.3 8.7 0.28 U 0.27 U 0.49 U 0.17 U 51 3.2 U 36 0.96 J 0.31 U 5.6 J 1100 11 0.75 J	2.8 U 5.8 6.7 0.29 U 0.28 U 0.5 U 0.17 U 31 1.5 U 24 0.51 J 0.32 U 1.1 J 780 7.6 U 0.26 J	2.9 U 7.3 8.8 0.3 U 0.29 U 0.51 U 0.18 U 44 2.2 U 30 1 J 0.33 U 6.6 J 1200 14 0.27 U	2.9 U 7.2 6 0.3 U 0.29 U 0.51 U 0.18 J 17 1.7 U 16 1.1 J 0.33 U 8.6 800 14 0.27 U	2.8 U 12 5.3 0.29 U 0.28 U 0.5 U 0.17 U 14 1.8 U 13 1 J 0.32 U 8.6 550 8.2 0.26 U
Perfluorodecane Sulfonic Acid Perfluorodecanoic acid (PFDA) Perfluorododecanoic acid (PFDoA) Perfluoroheptane Sulfonate (PFHPS) Perfluoroheptanoic acid (PFHpA) Perfluorohexanesulfonic acid (PFHxS) Perfluorohexanoic acid (PFHxA) Perfluorononanoic acid (PFNA) Perfluorooctane Sulfonamide (FOSA) Perfluorooctane Sulfonamide (FOSA) Perfluorooctanesulfonic acid (PFOS) Perfluorooctanoic acid (PFOA) Perfluoropentanoic Acid (PFPeA) Perfluorotetradecanoic acid (PFTA) Perfluorotetradecanoic acid (PFTA)	ng/l	1.6 J         4.7         0.3 U         0.29 U         0.51 U         0.18 U         35         1.4 U         23         1.4 J         0.33 U         0.73 J         2100         6.4         0.27 U         1.2 U	1.7 J         4.7         0.3 U         0.29 U         0.51 U         0.18 U         35         1.4 U         22         1.4 J         0.32 U         0.79 J         2200         6.2         0.27 U         1.2 U	3 U 0.3 J 7.8 0.31 U 0.3 U 0.53 U 0.18 U 99 0.46 U 89 0.26 U 0.34 U 0.52 UJ 1900 15 0.28 U 1.3 U	3 U         10         4.1         0.31 U         0.3 U         0.53 U         0.53 U         0.18 U         15         3         14         0.34 U         1.8 J         360         4.1         0.28 U         1.3 U	2.9 U 5.3 8 0.3 U 0.56 J 0.52 U 0.18 U 29 1.6 U 23 2 0.33 U 11 770 14 0.27 U 1.2 U	2.9 U 5.5 9.9 0.3 U 0.29 U 0.52 U 0.18 U 35 2.1 U 30 1.8 J 0.33 U 8.2 820 17 0.27 U 1.2 U	2.9 U 0.54 J 9.3 0.3 U 0.29 U 0.51 U 0.51 U 0.18 U 26 0.86 U 65 0.25 U 0.32 U 1.3 J 420 16 0.27 U 1.2 U	2.7 U 7.3 8.7 0.28 U 0.27 U 0.49 U 0.17 U 51 3.2 U 36 0.96 J 0.31 U 5.6 J 1100 11 0.75 J 1.1 U	2.8 U 5.8 6.7 0.29 U 0.28 U 0.5 U 0.17 U 31 1.5 U 24 0.51 J 0.32 U 1.1 J 780 7.6 U 0.26 J 1.2 U	2.9 U 7.3 8.8 0.3 U 0.29 U 0.51 U 0.18 U 44 2.2 U 30 1 J 0.33 U 6.6 J 1200 14 0.27 U 1.2 U	2.9 U 7.2 6 0.3 U 0.29 U 0.51 U 0.18 J 17 1.7 U 16 1.1 J 0.33 U 8.6 800 14 0.27 U 1.2 U	2.8 U 12 5.3 0.29 U 0.28 U 0.5 U 0.17 U 14 1.8 U 13 1 J 0.32 U 8.6 550 8.2 0.26 U 1.2 U
Perfluorodecane Sulfonic Acid Perfluorodecanoic acid (PFDA) Perfluorododecanoic acid (PFDoA) Perfluoroheptane Sulfonate (PFHPS) Perfluoroheptanoic acid (PFHpA) Perfluorohexanesulfonic acid (PFHxS) Perfluorohexanoic acid (PFHxA) Perfluorononanoic acid (PFNA) Perfluorooctane Sulfonamide (FOSA) Perfluorooctane Sulfonic acid (PFOS) Perfluorooctanoic acid (PFOA) Perfluoropentanoic Acid (PFPeA) Perfluorotetradecanoic acid (PFTA) Perfluorotetradecanoic Acid (PFTA) Perfluoroundecanoic Acid (PFUnA)	ng/l	1.6 J         4.7         0.3 U         0.29 U         0.51 U         0.18 U         35         1.4 U         23         1.4 J         0.33 U         0.73 J         2100         6.4         0.27 U         1.2 U         1 U	1.7 J         4.7         0.3 U         0.29 U         0.51 U         0.18 U         35         1.4 U         22         1.4 J         0.32 U         0.79 J         2200         6.2         0.27 U         1.2 U         1 U	3 U 0.3 J 7.8 0.31 U 0.3 U 0.3 U 0.53 U 0.18 U 99 0.46 U 89 0.26 U 0.34 U 0.52 UJ 1900 15 0.28 U 1.3 U 1.1 U	3 U         10         4.1         0.31 U         0.3 U         0.53 U         0.53 U         0.18 U         15         3         14         0.47 J         0.34 U         1.8 J         360         4.1         0.28 U         1.3 U         1.1 U	2.9 U 5.3 8 0.3 U 0.56 J 0.52 U 0.18 U 29 1.6 U 23 2 0.33 U 11 770 14 0.27 U 1.2 U 1 U	2.9 U 5.5 9.9 0.3 U 0.29 U 0.52 U 0.18 U 35 2.1 U 30 1.8 J 0.33 U 8.2 820 17 0.27 U 1.2 U 1.2 U 1 U	2.9 U 0.54 J 9.3 0.3 U 0.29 U 0.51 U 0.18 U 26 0.86 U 65 0.25 U 0.32 U 1.3 J 420 16 0.27 U 1.2 U 1 U	2.7 U 7.3 8.7 0.28 U 0.27 U 0.49 U 0.17 U 51 3.2 U 36 0.96 J 0.31 U 5.6 J 1100 11 0.75 J 1.1 U 0.97 U	2.8 U 5.8 6.7 0.29 U 0.28 U 0.5 U 0.17 U 31 1.5 U 24 0.51 J 0.32 U 1.1 J 780 7.6 U 0.26 J 1.2 U 1 U	2.9 U 7.3 8.8 0.3 U 0.29 U 0.51 U 0.18 U 44 2.2 U 30 1 J 0.33 U 6.6 J 1200 14 0.27 U 1.2 U 1 U	2.9 U 7.2 6 0.3 U 0.29 U 0.51 U 0.18 J 17 1.7 U 16 1.1 J 0.33 U 8.6 800 14 0.27 U 1.2 U 1 U	2.8 U 12 5.3 0.29 U 0.28 U 0.5 U 0.17 U 14 1.8 U 13 1J 0.32 U 8.6 550 8.2 0.26 U 1.2 U 0.99 U
Perfluorodecane Sulfonic Acid Perfluorodecanoic acid (PFDA) Perfluorododecanoic acid (PFDoA) Perfluoroheptane Sulfonate (PFHPS) Perfluoroheptanoic acid (PFHpA) Perfluorohexanesulfonic acid (PFHxS) Perfluorohexanoic acid (PFHxA) Perfluorononanoic acid (PFNA) Perfluorooctane Sulfonamide (FOSA) Perfluorooctane Sulfonic acid (PFOS) Perfluorooctanesulfonic acid (PFOS) Perfluoropentanoic Acid (PFOA) Perfluoropentanoic Acid (PFPA) Perfluorotetradecanoic acid (PFTA) Perfluorotetradecanoic Acid (PFTA) Perfluorotetradecanoic Acid (PFTA) Perfluoroundecanoic Acid (PFUnA) SODIUM 1H,1H,2H,2H-PERFLUORODECANE SULFONATE (8:2)	ng/l	1.6 J         4.7         0.3 U         0.29 U         0.51 U         0.18 U         35         1.4 U         23         1.4 J         0.33 U         0.73 J         2100         6.4         0.27 U         1.2 U         1 U         1.9 U	1.7 J         4.7         0.3 U         0.29 U         0.51 U         0.18 U         35         1.4 U         22         1.4 J         0.32 U         0.79 J         2200         6.2         0.27 U         1.2 U         1 U         1.8 U	3 U 0.3 J 7.8 0.31 U 0.3 U 0.53 U 0.18 U 99 0.46 U 89 0.26 U 0.34 U 0.52 UJ 1900 15 0.28 U 1.3 U 1.1 U 1.9 U	3 U         10         4.1         0.31 U         0.3 U         0.3 U         0.3 U         0.53 U         0.18 U         15         3         14         0.47 J         0.34 U         1.8 J         360         4.1         0.28 U         1.3 U         1.1 U         1.9 U	2.9 U 5.3 8 0.3 U 0.56 J 0.52 U 0.18 U 29 1.6 U 23 2 0.33 U 11 770 14 0.27 U 1.2 U 1 U 1.9 U	2.9 U 5.5 9.9 0.3 U 0.29 U 0.52 U 0.18 U 35 2.1 U 30 1.8 J 0.33 U 8.2 820 17 0.27 U 1.2 U 1.2 U 1.9 U	2.9 U 0.54 J 9.3 0.3 U 0.29 U 0.51 U 0.18 U 26 0.86 U 65 0.25 U 0.32 U 1.3 J 420 16 0.27 U 1.2 U 1 U 1.8 U	2.7 U 7.3 8.7 0.28 U 0.27 U 0.49 U 0.17 U 51 3.2 U 36 0.96 J 0.31 U 5.6 J 1100 11 0.75 J 1.1 U 0.97 U 1.8 U	2.8 U 5.8 6.7 0.29 U 0.28 U 0.5 U 0.17 U 31 1.5 U 24 0.51 J 0.32 U 1.1 J 780 7.6 U 0.26 J 1.2 U 1 U 1.8 U	2.9 U 7.3 8.8 0.3 U 0.29 U 0.51 U 0.18 U 44 2.2 U 30 1 J 0.33 U 6.6 J 1200 14 0.27 U 1.2 U 1 U 1.9 U	2.9 U 7.2 6 0.3 U 0.29 U 0.51 U 0.18 J 17 1.7 U 16 1.1 J 0.33 U 8.6 800 14 0.27 U 1.2 U 1 U 1.9 U	2.8 U 12 5.3 0.29 U 0.28 U 0.5 U 0.17 U 14 1.8 U 13 1 J 0.32 U 8.6 550 8.2 0.26 U 1.2 U 0.99 U 1.8 U
Perfluorodecane Sulfonic Acid Perfluorodecanoic acid (PFDA) Perfluorododecanoic acid (PFDoA) Perfluoroheptane Sulfonate (PFHPS) Perfluoroheptanoic acid (PFHpA) Perfluorohexanesulfonic acid (PFHxS) Perfluorohexanoic acid (PFHxA) Perfluorononanoic acid (PFNA) Perfluorooctane Sulfonamide (FOSA) Perfluorooctane Sulfonamide (FOSA) Perfluorooctanesulfonic acid (PFOS) Perfluorooctanoic acid (PFOA) Perfluoropentanoic Acid (PFPeA) Perfluorotetradecanoic acid (PFTA) Perfluorotetradecanoic Acid (PFTA) Perfluoroundecanoic Acid (PFTA) Perfluoroundecanoic Acid (PFUnA) SODIUM 1H,1H,2H,2H-PERFLUORODECANE SULFONATE (8:2) SODIUM 1H,1H,2H,2H-PERFLUOROOCTANE SULFONATE (6:2)	ng/l	1.6 J         4.7         0.3 U         0.29 U         0.51 U         0.18 U         35         1.4 U         23         1.4 J         0.33 U         0.73 J         2100         6.4         0.27 U         1.2 U         1 U	1.7 J         4.7         0.3 U         0.29 U         0.51 U         0.18 U         35         1.4 U         22         1.4 J         0.32 U         0.79 J         2200         6.2         0.27 U         1.2 U         1 U	3 U 0.3 J 7.8 0.31 U 0.3 U 0.3 U 0.53 U 0.18 U 99 0.46 U 89 0.26 U 0.34 U 0.52 UJ 1900 15 0.28 U 1.3 U 1.1 U	3 U         10         4.1         0.31 U         0.3 U         0.53 U         0.53 U         0.18 U         15         3         14         0.47 J         0.34 U         1.8 J         360         4.1         0.28 U         1.3 U         1.1 U	2.9 U 5.3 8 0.3 U 0.56 J 0.52 U 0.18 U 29 1.6 U 23 2 0.33 U 11 770 14 0.27 U 1.2 U 1 U	2.9 U 5.5 9.9 0.3 U 0.29 U 0.52 U 0.18 U 35 2.1 U 30 1.8 J 0.33 U 8.2 820 17 0.27 U 1.2 U 1.2 U 1 U	2.9 U 0.54 J 9.3 0.3 U 0.29 U 0.51 U 0.18 U 26 0.86 U 65 0.25 U 0.32 U 1.3 J 420 16 0.27 U 1.2 U 1 U	2.7 U 7.3 8.7 0.28 U 0.27 U 0.49 U 0.17 U 51 3.2 U 36 0.96 J 0.31 U 5.6 J 1100 11 0.75 J 1.1 U 0.97 U	2.8 U 5.8 6.7 0.29 U 0.28 U 0.5 U 0.17 U 31 1.5 U 24 0.51 J 0.32 U 1.1 J 780 7.6 U 0.26 J 1.2 U 1 U	2.9 U 7.3 8.8 0.3 U 0.29 U 0.51 U 0.18 U 44 2.2 U 30 1 J 0.33 U 6.6 J 1200 14 0.27 U 1.2 U 1 U	2.9 U 7.2 6 0.3 U 0.29 U 0.51 U 0.18 J 17 1.7 U 16 1.1 J 0.33 U 8.6 800 14 0.27 U 1.2 U 1 U	2.8 U 12 5.3 0.29 U 0.28 U 0.5 U 0.17 U 14 1.8 U 13 1J 0.32 U 8.6 550 8.2 0.26 U 1.2 U 0.99 U
Perfluorodecane Sulfonic Acid Perfluorodecanoic acid (PFDA) Perfluorododecanoic acid (PFDoA) Perfluoroheptane Sulfonate (PFHPS) Perfluoroheptanoic acid (PFHpA) Perfluorohexanesulfonic acid (PFHxS) Perfluorohexanoic acid (PFHxA) Perfluorononanoic acid (PFNA) Perfluorooctane Sulfonamide (FOSA) Perfluorooctane Sulfonamide (FOSA) Perfluorooctaneic acid (PFOS) Perfluorooctanoic acid (PFOA) Perfluoropentanoic Acid (PFPeA) Perfluorotetradecanoic acid (PFTA) Perfluorotridecanoic Acid (PFTA) Perfluoroundecanoic Acid (PFUnA) SODIUM 1H,1H,2H,2H-PERFLUORODECANE SULFONATE (8:2) SODIUM 1H,1H,2H,2H-PERFLUOROOCTANE SULFONATE (6:2) <b>Total Organic Carbon by Lloyd Kahn Method</b>	ng/l           ng/l	1.6 J         4.7         0.3 U         0.29 U         0.51 U         0.18 U         35         1.4 U         23         1.4 J         0.33 U         0.73 J         2100         6.4         0.27 U         1.2 U         1 U         1.9 U	1.7 J         4.7         0.3 U         0.29 U         0.51 U         0.18 U         35         1.4 U         22         1.4 J         0.32 U         0.79 J         2200         6.2         0.27 U         1.2 U         1 U         1.8 U	3 U 0.3 J 7.8 0.31 U 0.3 U 0.53 U 0.18 U 99 0.46 U 89 0.26 U 0.34 U 0.52 UJ 1900 15 0.28 U 1.3 U 1.1 U 1.9 U 1.9 U	3 U         10         4.1         0.31 U         0.3 U         0.3 U         0.53 U         0.18 U         15         3         14         0.47 J         0.34 U         1.8 J         360         4.1         0.28 U         1.3 U         1.1 U         1.9 U         1.9 U	2.9 U 5.3 8 0.3 U 0.56 J 0.52 U 0.18 U 29 1.6 U 23 2 0.33 U 11 770 14 0.27 U 1.2 U 1 U 1.9 U 1.9 U 1.9 U	2.9 U 5.5 9.9 0.3 U 0.29 U 0.52 U 0.18 U 35 2.1 U 30 1.8 J 0.33 U 8.2 820 17 0.27 U 1.2 U 1.2 U 1.9 U 1.9 U	2.9 U 0.54 J 9.3 0.3 U 0.29 U 0.51 U 0.18 U 26 0.86 U 65 0.25 U 0.32 U 1.3 J 420 16 0.27 U 1.2 U 1.2 U 1.8 U 1.8 U	2.7 U 7.3 8.7 0.28 U 0.27 U 0.49 U 0.17 U 51 3.2 U 36 0.96 J 0.31 U 5.6 J 1100 11 0.75 J 1.1 U 0.97 U 1.8 U	2.8 U 5.8 6.7 0.29 U 0.28 U 0.5 U 0.17 U 31 1.5 U 24 0.51 J 0.32 U 1.1 J 780 7.6 U 0.26 J 1.2 U 1 U 1.8 U 1.8 U	2.9 U 7.3 8.8 0.3 U 0.29 U 0.51 U 0.18 U 44 2.2 U 30 1 J 0.33 U 6.6 J 1200 14 0.27 U 1.2 U 1.9 U 1.9 U	2.9 U 7.2 6 0.3 U 0.29 U 0.51 U 0.18 J 17 1.7 U 16 1.1 J 0.33 U 8.6 800 14 0.27 U 1.2 U 1 U 1.9 U 1.9 U	2.8 U 12 5.3 0.29 U 0.28 U 0.5 U 0.17 U 14 1.8 U 13 1 J 0.32 U 8.6 550 8.2 0.26 U 1.2 U 0.99 U 1.8 U 1.8 U
Perfluorodecane Sulfonic Acid Perfluorodecanoic acid (PFDA) Perfluorododecanoic acid (PFDoA) Perfluoroheptane Sulfonate (PFHPS) Perfluoroheptanoic acid (PFHpA) Perfluorohexanesulfonic acid (PFHxS) Perfluorohexanoic acid (PFHxA) Perfluorononanoic acid (PFNA) Perfluorooctane Sulfonamide (FOSA) Perfluorooctane Sulfonic acid (PFOS) Perfluorooctanesulfonic acid (PFOS) Perfluorooctanoic acid (PFOA) Perfluoropentanoic Acid (PFPeA) Perfluorotetradecanoic acid (PFTA) Perfluorotetradecanoic Acid (PFTA) Perfluoroundecanoic Acid (PFUnA) SODIUM 1H,1H,2H,2H-PERFLUORODECANE SULFONATE (8:2) SODIUM 1H,1H,2H,2H-PERFLUOROOCTANE SULFONATE (6:2) <b>Total Organic Carbon by Lloyd Kahn Method</b> Total Organic Carbon	ng/l	1.6 J         4.7         0.3 U         0.29 U         0.51 U         0.18 U         35         1.4 U         23         1.4 J         0.33 U         0.73 J         2100         6.4         0.27 U         1.2 U         1 U         1.9 U	1.7 J         4.7         0.3 U         0.29 U         0.51 U         0.18 U         35         1.4 U         22         1.4 J         0.32 U         0.79 J         2200         6.2         0.27 U         1.2 U         1 U         1.8 U	3 U 0.3 J 7.8 0.31 U 0.3 U 0.53 U 0.18 U 99 0.46 U 89 0.26 U 0.34 U 0.52 UJ 1900 15 0.28 U 1.3 U 1.1 U 1.9 U	3 U         10         4.1         0.31 U         0.3 U         0.3 U         0.3 U         0.53 U         0.18 U         15         3         14         0.47 J         0.34 U         1.8 J         360         4.1         0.28 U         1.3 U         1.1 U         1.9 U	2.9 U 5.3 8 0.3 U 0.56 J 0.52 U 0.18 U 29 1.6 U 23 2 0.33 U 11 770 14 0.27 U 1.2 U 1 U 1.9 U	2.9 U 5.5 9.9 0.3 U 0.29 U 0.52 U 0.18 U 35 2.1 U 30 1.8 J 0.33 U 8.2 820 17 0.27 U 1.2 U 1.2 U 1.9 U	2.9 U 0.54 J 9.3 0.3 U 0.29 U 0.51 U 0.18 U 26 0.86 U 65 0.25 U 0.32 U 1.3 J 420 16 0.27 U 1.2 U 1 U 1.8 U	2.7 U 7.3 8.7 0.28 U 0.27 U 0.49 U 0.17 U 51 3.2 U 36 0.96 J 0.31 U 5.6 J 1100 11 0.75 J 1.1 U 0.97 U 1.8 U	2.8 U 5.8 6.7 0.29 U 0.28 U 0.5 U 0.17 U 31 1.5 U 24 0.51 J 0.32 U 1.1 J 780 7.6 U 0.26 J 1.2 U 1 U 1.8 U	2.9 U 7.3 8.8 0.3 U 0.29 U 0.51 U 0.18 U 44 2.2 U 30 1 J 0.33 U 6.6 J 1200 14 0.27 U 1.2 U 1 U 1.9 U	2.9 U 7.2 6 0.3 U 0.29 U 0.51 U 0.18 J 17 1.7 U 16 1.1 J 0.33 U 8.6 800 14 0.27 U 1.2 U 1 U 1.9 U	2.8 U 12 5.3 0.29 U 0.28 U 0.5 U 0.17 U 14 1.8 U 13 1 J 0.32 U 8.6 550 8.2 0.26 U 1.2 U 0.99 U 1.8 U
Perfluorodecane Sulfonic Acid Perfluorodecanoic acid (PFDA) Perfluorododecanoic acid (PFDoA) Perfluoroheptane Sulfonate (PFHPS) Perfluoroheptanoic acid (PFHpA) Perfluorohexanesulfonic acid (PFHxS) Perfluorohexanoic acid (PFHxA) Perfluorononanoic acid (PFNA) Perfluorooctane Sulfonamide (FOSA) Perfluorooctane Sulfonic acid (PFOS) Perfluorooctanesulfonic acid (PFOS) Perfluorooctanoic acid (PFOA) Perfluoropentanoic Acid (PFPeA) Perfluorotetradecanoic acid (PFTA) Perfluorotetradecanoic Acid (PFTA) Perfluoroundecanoic Acid (PFUnA) SODIUM 1H,1H,2H,2H-PERFLUORODECANE SULFONATE (8:2) SODIUM 1H,1H,2H,2H-PERFLUOROOCTANE SULFONATE (6:2) <i>Total Organic Carbon by Lloyd Kahn Method</i> Total Organic Carbon	ng/l	1.6 J         4.7         0.3 U         0.29 U         0.51 U         0.18 U         35         1.4 U         23         1.4 J         0.33 U         0.73 J         2100         6.4         0.27 U         1.2 U         1 U         1.9 U         0.47 J	1.7 J         4.7         0.3 U         0.29 U         0.51 U         0.18 U         35         1.4 U         22         1.4 J         0.32 U         0.79 J         2200         6.2         0.27 U         1.8 U         1.8 U         0.54 J	3 U 0.3 J 7.8 0.31 U 0.3 U 0.53 U 0.18 U 99 0.46 U 89 0.26 U 0.34 U 0.52 UJ 1900 15 0.28 U 1.3 U 1.1 U 1.9 U 1.9 U 1.9 U	3 U         10         4.1         0.31 U         0.3 U         0.3 U         0.53 U         0.18 U         15         3         14         0.47 J         0.34 U         1.8 J         360         4.1         0.28 U         1.3 U         1.1 U         1.9 U         0.59 J	2.9 U 5.3 8 0.3 U 0.56 J 0.52 U 0.18 U 29 1.6 U 23 2 0.33 U 11 770 14 0.27 U 1.2 U 1.2 U 1.9 U 1.9 U 0.83 J	2.9 U 5.5 9.9 0.3 U 0.29 U 0.52 U 0.18 U 35 2.1 U 30 1.8 J 0.33 U 8.2 820 17 0.27 U 1.2 U 1.2 U 1.9 U 1.9 U	2.9 U 0.54 J 9.3 0.3 U 0.29 U 0.51 U 0.18 U 26 0.86 U 65 0.25 U 0.32 U 1.3 J 420 16 0.27 U 1.2 U 1.2 U 1.8 U 1.8 U 1.8 U	2.7 U 7.3 8.7 0.28 U 0.27 U 0.49 U 0.17 U 51 3.2 U 36 0.96 J 0.31 U 5.6 J 1100 11 0.75 J 1.1 U 0.97 U 1.8 U 1.8 U 0.86 J	2.8 U 5.8 6.7 0.29 U 0.28 U 0.5 U 0.17 U 31 1.5 U 24 0.51 J 0.32 U 1.1 J 780 7.6 U 0.26 J 1.2 U 1 U 1.8 U 1.8 U 0.79 J	2.9 U 7.3 8.8 0.3 U 0.29 U 0.51 U 0.18 U 44 2.2 U 30 1 J 0.33 U 6.6 J 1200 14 0.27 U 1.2 U 1.9 U 1.9 U 1.9 U	2.9 U 7.2 6 0.3 U 0.29 U 0.51 U 0.18 J 17 1.7 U 16 1.1 J 0.33 U 8.6 800 14 0.27 U 1.2 U 1.2 U 1.9 U 1.9 U 0.72 J	2.8 U 12 5.3 0.29 U 0.28 U 0.5 U 0.17 U 14 1.8 U 13 1 J 0.32 U 8.6 550 8.2 0.26 U 1.2 U 0.99 U 1.8 U 1.8 U 0.7 J
Perfluorodecane Sulfonic Acid Perfluorodecanoic acid (PFDA) Perfluorododecanoic acid (PFDoA) Perfluoroheptane Sulfonate (PFHPS) Perfluoroheptanoic acid (PFHpA) Perfluorohexanesulfonic acid (PFHxS) Perfluorohexanoic acid (PFHxA) Perfluorononanoic acid (PFNA) Perfluorooctane Sulfonamide (FOSA) Perfluorooctane Sulfonamide (FOSA) Perfluorooctaneic acid (PFOS) Perfluorooctanoic acid (PFOA) Perfluoropentanoic Acid (PFPeA) Perfluorotetradecanoic acid (PFTA) Perfluorotridecanoic Acid (PFTA) Perfluoroundecanoic Acid (PFUnA) SODIUM 1H,1H,2H,2H-PERFLUORODECANE SULFONATE (8:2) SODIUM 1H,1H,2H,2H-PERFLUOROOCTANE SULFONATE (6:2) <b>Total Organic Carbon by Lloyd Kahn Method</b>	ng/l           ng/l	1.6 J         4.7         0.3 U         0.29 U         0.51 U         0.18 U         35         1.4 U         23         1.4 J         0.33 U         0.73 J         2100         6.4         0.27 U         1.2 U         1 U         1.9 U	1.7 J         4.7         0.3 U         0.29 U         0.51 U         0.18 U         35         1.4 U         22         1.4 J         0.32 U         0.79 J         2200         6.2         0.27 U         1.2 U         1 U         1.8 U	3 U 0.3 J 7.8 0.31 U 0.3 U 0.53 U 0.18 U 99 0.46 U 89 0.26 U 0.34 U 0.52 UJ 1900 15 0.28 U 1.3 U 1.1 U 1.9 U 1.9 U	3 U         10         4.1         0.31 U         0.3 U         0.3 U         0.53 U         0.18 U         15         3         14         0.47 J         0.34 U         1.8 J         360         4.1         0.28 U         1.3 U         1.1 U         1.9 U         1.9 U	2.9 U 5.3 8 0.3 U 0.56 J 0.52 U 0.18 U 29 1.6 U 23 2 0.33 U 11 770 14 0.27 U 1.2 U 1 U 1.9 U 1.9 U 1.9 U	2.9 U 5.5 9.9 0.3 U 0.29 U 0.52 U 0.18 U 35 2.1 U 30 1.8 J 0.33 U 8.2 820 17 0.27 U 1.2 U 1.2 U 1.9 U 1.9 U	2.9 U 0.54 J 9.3 0.3 U 0.29 U 0.51 U 0.18 U 26 0.86 U 65 0.25 U 0.32 U 1.3 J 420 16 0.27 U 1.2 U 1.2 U 1.8 U 1.8 U	2.7 U 7.3 8.7 0.28 U 0.27 U 0.49 U 0.17 U 51 3.2 U 36 0.96 J 0.31 U 5.6 J 1100 11 0.75 J 1.1 U 0.97 U 1.8 U 1.8 U	2.8 U 5.8 6.7 0.29 U 0.28 U 0.5 U 0.17 U 31 1.5 U 24 0.51 J 0.32 U 1.1 J 780 7.6 U 0.26 J 1.2 U 1 U 1.8 U 1.8 U	2.9 U 7.3 8.8 0.3 U 0.29 U 0.51 U 0.18 U 44 2.2 U 30 1 J 0.33 U 6.6 J 1200 14 0.27 U 1.2 U 1.9 U 1.9 U	2.9 U 7.2 6 0.3 U 0.29 U 0.51 U 0.18 J 17 1.7 U 16 1.1 J 0.33 U 8.6 800 14 0.27 U 1.2 U 1 U 1.9 U 1.9 U	2.8 U 12 5.3 0.29 U 0.28 U 0.5 U 0.17 U 14 1.8 U 13 1 J 0.32 U 8.6 550 8.2 0.26 U 1.2 U 0.99 U 1.8 U 1.8 U

Notes and AbbreviationsN - Primary sampleng/L - nanograms per literFD - Field duplicate samplemg/L - milligrams per literna - Sample not analyzed for this parameterU - Compound not detectedBold value indicates detected valueJ - Estimated value



# Table 10 - Analytical Results for Other Parameters from Groundwater APS SamplesFormer Oak-Mitsui - First Street

			Location ID Sample ID Sample Date Sample Type Validated - Y/N Depth	FS-APS-001 FS-APS-001 (15) (10302018) 10/30/2018 N Y 15	FS-APS-002 FS-APS-002 (13.9) (10302018) 10/30/2018 N Y 13.9	FS-APS-003 FS-APS-003 (14) (10312018) 10/31/2018 N Y 14	FS-APS-003 FS-APS-DUP1 (10312018) 10/31/2018 FD Y 14	FS-APS-003 FS-APS-003 (86.15) (11012018) 11/1/2018 N Y 86.15	FS-APS-003 FS-APS-003 (98.9) (11012018) 11/1/2018 N Y 98.9	FS-APS-004 FS-APS-004 (14.3) (11052018) 11/5/2018 N Y 14.3	FS-APS-004 FS-APS-004 (86.1) (11062018) 11/6/2018 N Y 86.1	FS-APS-005 FS-APS-005 (14.7) (11062018) 11/6/2018 N Y 14.7	FS-APS-005 FS-APS-005 (43.3) (11072018) 11/7/2018 N Y 43.3	FS-APS-005 FS-APS-005 (83.1) (11082018) 11/8/2018 N Y 83.1	FS-APS-005 FS-APS-DUP2 (11082018) 11/8/2018 FD Y 83.1	FS-APS-006 FS-APS-006 (14.5) (10312018) 10/31/2018 N Y 14.5	FS-APS-006 FS-APS-006 (57.9) (10312018) 10/31/2018 N Y 57.9	FS-APS-006 FS-APS-006 (77.4) (11012018) 11/1/2018 N Y 77.4	FS-APS-007 FS-APS-007 (14.5) (11012018) 11/1/2018 N Y 14.5	FS-APS-007 FS-APS-007 (32.7) (11022018) 11/2/2018 N Y 32.7	FS-APS-007 FS-APS-007 (74.6) (11052018) 11/5/2018 N Y 74.6	FS-APS-008 FS-APS-008 (14.9) (11022018) 11/2/2018 N Y 14.9	FS-APS-008 FS-APS-008 (36.9) (11022018) 11/2/2018 N Y 36.9	FS-APS-008 FS-APS-008 (43.2) (11052018) 11/5/2018 N Y 43.2	FS-APS-009 FS-APS-009 (14.5) (11062018) 11/6/2018 N Y 14.5	FS-APS-009 FS-APS-009 (106.6) (11072018) 11/7/2018 N Y 106.6	FS-APS-010 FS-APS-010 (14.6) (11082018) 11/8/2018 N Y 14.6	FS-APS-011 FS-APS-011 (11.9) (11082018) 11/8/2018 N Y 11.9	FS-APS-011 FS-APS-011 (22.9) (11092018) 11/9/2018 N Y 22.9
Analyte	Unit	NYDEC TOGS111 GA GUIDANCE	NYDEC TOGS111 GA STANDARD	10	10.5			00.10	30.3	11.0	00.1		10.0	00.1	00.1	11.0	01.5		110	01.7	71.0	11.7	50.5	3.0 + 2	11.0	100.0	11.0	11.7	22.7
Metals	mg/l	NS	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.23	0.79	0.12 J	0.2 U	0.41	0.33	0.38	0.29	12.8	0.2 U	0.66	2.3	0.36	0.14 J	0.15 J	0.22	0.28	na	1	0.24	0.2 U
Intimony	mg/1	0.003	NS	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	na	0.02 U	0.02 U	0.02 U
rsenic	mg/1	0.025	NS	0.015 U	0.015 U 0.075	0.015 U 0.067	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U 0.071	0.015 U	0.015 U	0.015 U 0.076	0.015 U 0.076	0.015 U	0.0086 J 0.75	0.015 U 0.099	0.015 U	0.015 U	0.015 U 0.077	0.015 U	0.015 U 0.067	0.015 U 0.067	0.015 U	na	0.015 U 0.06	0.015 U	0.015 U
arium eryllium	mg/l mg/l	NS	0.003	0.22 0.002 U	0.073 0.002 U	0.007 0.002 U	0.071 0.002 U	0.46 0.002 U	0.4 0.002 U	0.029 0.00037 J	0.0071 0.002 U	0.03 0.002 U	0.079 0.002 U	0.078 0.002 U	0.078 0.002 U	0.11 0.002 U	0.75 0.0015 J	0.099 0.002 U	0.16 0.002 U	0.31 0.002 U	0.077 0.002 U	0.042 0.002 U	0.007 0.002 U	0.007 0.002 U	0.029 0.002 U	na na	0.00 U	0.051 0.002 U	0.1 0.002 U
admium	mg/l	0.005	NS	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.041	0.002 U	0.0035	0.002 U	0.002 U	0.002 U	0.002 U	0.0013 J	0.002 U	0.0043	0.0048	0.002 U	na	0.002 U	0.002 U	0.002 U				
ilcium iromium, Total	mg/l mg/l	NS 0.05	NS	98.1 0.004 U	60.2 0.004 U	60.7 0.0019 J	63.8 0.004 U	81 0.004 U	79.5 0.004 U	128 0.0026 J	88 0.004 U	114 0.004 U	78.6 0.004 U	93.9 0.004 U	93.4 0.0067	94.4 0.004 U	203 0.014	82 0.004 U	84.7 0.0044	70.2 0.0036 J	95.8 0.004 U	63 0.0014 J	101 0.004 U	102 0.004 U	50.2 0.004 U	na na	71.4 0.003 J	84 0.0017 J	81 0.004 U
balt	mg/1	NS	NS	0.004 U	0.004 U	0.001 J	0.004 U	0.004 U	0.004 U	0.025	0.004 U	0.004 C	0.004 U	0.004 U	0.004 U	0.004 U	0.021	0.004 U	0.00072 J	0.00093 J	0.004 U	0.0014 J	0.004 C	0.0015 J	0.004 U	na	0.003 J	0.0017 J	0.004 U
pper	mg/l	0.2	NS	0.01 U	0.18	0.11	0.12	0.01 U	0.01 U	58.3	0.014	0.72	0.003 J	0.019	0.12	0.0029 J	0.12	0.0017 J	0.011	0.0097 J	0.01 U	0.037	0.07	0.12	0.0028 J	na	0.041	0.01 U	0.0026 J
ad	mg/l mg/l	0.3	NS	0.53 0.01 U	0.23 0.0083 J	0.067 0.01 U	0.067 0.01 U	0.18 U 0.01 U	0.38 0.01 U	2.3 0.05 U	0.28 0.01 U	0.062 0.01 U	0.6 0.01 U	0.62 0.01 U	0.78 0.01 U	0.4 U 0.01 U	28.3 0.041	0.094 0.01 U	1.4 0.01 U	3.3 0.0034 J	0.64 0.01 U	0.26 0.003 J	0.17 0.01 U	0.41 0.01 U	0.28 0.01 U	na na	1.7 0.01 U	0.46 0.01 U	0.095 0.01 U
ngnesium	mg/1	NS	35	16.2	8.9	8.8	9.2	18.5	18.1	32.7	18.2	12.8	17.2	18.8	18.5	14.4	45.3	19.3	13.1	17	21.8	12.2	18.2	18.8	7.2	na	9.2	12.5	17.9
inganese	mg/l	0.3	NS	0.81	0.046	0.017	0.011	0.41	0.4	2.1	0.66	0.15	0.52	0.83	0.81	0.071	3.1	0.66	0.41	0.51	0.76	0.014	0.73	0.73	0.012	na	0.12	0.024	0.37
ercury ickel	mg/l mg/l	0.1	0.0007 NS	0.0002 U 0.01 U	0.0002 U 0.0043 J	0.0002 U 0.0036 J	0.0002 U 0.0036 J	0.0002 U 0.01 U	0.0002 U 0.01 U	0.00012 J 0.2	0.0002 U 0.0028 J	0.0002 U 0.028	0.0002 U 0.01 U	0.0002 U 0.0025 J	0.0002 U 0.0031 J	0.0002 U 0.01 U	0.0002 U 0.032	0.0002 U 0.002 J	0.0002 U 0.0037 J	0.0002 U 0.0049 J	0.0002 U 0.01 U	0.0002 U 0.0016 J	0.0002 U 0.0088 J	0.0002 U 0.0095 J	0.0002 U 0.01 U	na na	0.0002 U 0.0036 J	0.0002 U 0.01 U	na 0.01 U
tassium	mg/1 mg/1	NS	NS	5.4	5.6	4.9	5.2	1.4	1.9	14.5	3.4	5.2	2.4	4.2	4.2	6.1	5.2	3.9	6.3	2.2	3.2	8.8	4.7	4.8	4.2	na	5.3	4	1.5
lenium	mg/l	0.01	NS	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	na	0.025 U	0.025 U	0.025 U
dium	mg/l mg/l	0.05	NS	0.006 U 105	0.006 U 176	0.006 U 168	0.006 U 176	0.006 U 51.3	0.006 U 45.7	0.006 U 171	0.006 U 72.5	0.006 U 153	0.006 U 57.9	0.006 U 88.9	0.006 U 89	0.006 U 91.3	0.006 U 41.4	0.006 U 90.1	0.006 U 141	0.006 U 32.5	0.006 U 81.1	0.006 U 107	0.006 U 106	0.006 U 106	0.006 U 105	na na	0.006 U 147	0.006 U 25	0.006 U 56.2
hallium	mg/1	NS	0.0005	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	na	0.02 U	0.02 U	0.02 U
nadium	mg/l	NS	NS	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.017	0.005 U	0.005 U	0.0032 J	0.005 U	na	0.005 U	0.005 U	0.005 U				
nc otal Cyanide by USEPA Method 9012B	mg/l	NS	2	0.0021 J	0.23	0.018	0.018	0.01 U	0.01 U	1.3	0.0032 J	0.087	0.0026 J	0.0036 J	0.0031 J	0.01 U	0.16	0.01 U	0.01 U	0.011 U	0.01 U	0.01 U	0.025 U	0.033 U	0.010 U	na	0.0088 J	0.0025 J	0.0085 J
ranide	mg/l	NS	0.2	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.016	0.01 U	0.015 U	0.01 U	0.01 U	0.01 U	0.01 U	0.019	0.01 U	0.01 U	0.0061 J	0.0055 J	0.01 U	0.01 U	0.01 UJ	0.0074 J	0.01 U	na	0.01 U	0.0054 J	0.01 U
eak Acid Dissociable Cyanide by Method SM eak Acid Dissociable Cyanide	4500 mg/l	NS	NS	0.01 U	0.014	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0081 J	0.022 U	0.01 U	0.01 U	0.01 U	0.01 U	na	0.01 U	0.01 U	0.01 U
esticides by USEPA Method 8081B	ug/l	NS	NS	0.05 U	na	0.052 U	0.05 U	0.05 U	0.05 U	na	0.057 U	0.066 U	0.054 U	0.05 U	0.052 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.052 U	0.05 U	0.054 U	na	0.052 U	0.052 U	0.052 U
lpha Bhc (Alpha Hexachlorocyclohexane)	ug/1 ug/1	NS	0.01	0.05 U	na	0.052 U	0.05 U	0.05 U	0.05 U	na	0.057 U	0.066 UJ	0.054 U	0.05 U	0.052 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.052 U	0.05 U	0.054 U	na	0.052 U	0.052 U	0.052 U
pha Endosulfan	ug/l	NS	NS	0.05 U	na	0.052 U	0.05 U	0.05 U	0.05 U	na	0.057 U	0.066 U	0.054 U	0.05 U	0.052 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.052 U	0.05 U	0.054 U	na	0.052 U	0.052 U	0.052 U
ta Bhc (Beta Hexachlorocyclohexane) ta Endosulfan	ug/l ug/l	NS	0.04 NS	0.05 U 0.05 U	na na	0.052 U 0.052 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	na na	0.057 U 0.057 U	0.066 U 0.066 U	0.054 U 0.054 U	0.05 U 0.05 U	0.052 U 0.052 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	0.052 U 0.052 U	0.05 U 0.05 U	0.054 U 0.054 U	na	0.052 U 0.052 U	0.052 U 0.052 U	0.052 U 0.052 U
-Chlordane	ug/l	NS	NS	0.05 U	na	0.052 U	0.05 U	0.05 U	0.05 U	na	0.057 U	0.066 U	0.054 U	0.05 U	0.052 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.052 U	0.05 U	0.054 U	na	0.052 U	0.052 U	0.052 U
elta BHC (Delta Hexachlorocyclohexane)	ug/l	NS	0.04	0.05 U	na	0.052 U	0.05 U	0.05 U	0.05 U	na	0.057 U	0.066 U	0.054 U	0.05 U	0.052 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.052 U	0.05 U	0.054 U	na	0.052 U	0.052 U	0.052 U
ieldrin ndosulfan Sulfate	ug/l ug/l	NS	0.004 NS	0.05 U 0.05 U	na na	0.052 U 0.052 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	na na	0.057 U 0.057 U	0.066 U 0.066 U	0.054 U 0.054 U	0.05 U 0.05 U	0.052 U 0.052 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	0.052 U 0.052 U	0.05 U 0.05 U	0.054 U 0.054 U	na na	0.052 U 0.052 U	0.052 U 0.052 U	0.052 U 0.052 U
ndrin	ug/l	NS	0	0.05 U	na	0.052 U	0.05 U	0.05 U	0.05 U	na	0.057 U	0.066 U	0.054 U	0.05 U	0.052 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.052 U	0.05 U	0.054 U	na	0.052 U	0.052 U	0.052 U
ndrin Aldehyde	ug/l	NS	5	0.016 J	na	0.052 U	0.05 U	0.05 U	0.05 U	na	0.057 U	0.066 U	0.054 U	0.05 U	0.052 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.052 U	0.05 U	0.054 U	na	0.052 U	0.052 U	0.052 U
ndrin Ketone amma Bhc (Lindane)	ug/l ug/l	NS	5 0.05	0.05 U 0.05 U	na na	0.052 U 0.052 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	na na	0.057 U 0.057 U	0.066 U 0.066 U	0.054 U 0.054 U	0.05 U 0.05 U	0.052 U 0.052 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	0.052 U 0.052 U	0.05 U 0.05 U	0.054 U 0.054 U	na na	0.052 U 0.052 U	0.052 U 0.052 U	0.052 U 0.052 U
eptachlor	ug/l	NS	0.04	0.05 U	na	0.052 U	0.05 U	0.05 U	0.05 U	na	0.057 U	0.066 UJ	0.054 U	0.05 U	0.052 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.052 U	0.05 U	0.054 U	na	0.052 U	0.052 U	0.052 U
eptachlor Epoxide	ug/1	NS	0.03	0.05 U 0.05 U	na	0.052 U 0.052 U	0.05 U	0.05 U	0.05 U	na	0.057 U	0.066 U	0.054 U	0.05 U	0.052 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.052 U 0.052 U	0.05 U	0.054 U	na	0.052 U	0.052 U	0.052 U
ethoxychlor 2 <sup>9</sup> -DDD	ug/l ug/l	NS	35 0.3	0.05 U 0.011 J	na na	0.052 U 0.052 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	na na	0.057 U 0.057 U	0.066 U 0.066 U	0.054 U 0.054 U	0.05 U 0.05 U	0.052 U 0.052 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	0.052 U 0.052 U	0.05 U 0.05 U	0.054 U 0.054 U	na	0.052 U 0.052 U	0.052 U 0.052 U	0.052 U 0.052 U
P-DDE	ug/1	NS	0.2	0.05 U	na	0.052 U	0.05 U	0.05 U	0.05 U	na	0.057 U	0.066 U	0.054 U	0.05 U	0.052 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.052 U	0.05 U	0.054 U	na	0.052 U	0.052 U	0.052 U
-DDT	ug/l	NS	0.2	0.05 U	na	0.052 U	0.05 U	0.05 U	0.05 U	na	0.057 U	0.066 U	0.054 U	0.05 U	0.052 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.052 U	0.05 U	0.054 U	na	0.052 U	0.052 U	0.052 U
xaphene ns-Chlordane	ug/l ug/l	NS	0.06 NS	0.5 U 0.05 U	na na	0.52 U 0.052 U	0.5 U 0.05 U	0.5 U 0.05 U	0.5 U 0.05 U	na na	0.57 U 0.057 U	0.66 U 0.066 U	0.54 U 0.054 U	0.5 U 0.05 U	0.52 U 0.012 J	0.5 U 0.05 U	0.5 U 0.05 U	0.5 U 0.05 U	0.5 U 0.05 U	0.5 U 0.05 U	0.5 U 0.05 U	0.5 U 0.05 U	0.52 U 0.052 U	0.5 U 0.05 U	0.54 U 0.054 U	na na	0.52 U 0.052 U	0.52 U 0.052 U	0.52 U 0.052 U
lychlorined Biphenyls (PCBs) by USEPA Me		· · · · ·			ı	· · · ·				. · · · · · · · · · · · · · · · · · · ·				1 ····				1 ····					I						
B-1016 (Aroclor 1016)	ug/1	NS	0.09	0.5 U	na	0.5 U	0.5 U	0.5 U	0.52 U	na	0.5 U	0.52 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.52 U	0.5 U	0.5 U	0.52 U	0.5 U	0.5 U	0.5 U	0.52 U	na	0.5 U	0.5 U	0.5 U
B-1221 (Aroclor 1221) B-1232 (Aroclor 1232)	ug/l ug/l	NS	0.09	0.5 U 0.5 U	na na	0.5 U 0.5 U	0.5 U 0.5 U	0.5 U 0.5 U	0.52 U 0.52 U	na na	0.5 U 0.5 U	0.52 U 0.52 U	0.5 U 0.5 U	0.5 U 0.5 U	0.5 U 0.5 U	0.5 U 0.5 U	0.5 UJ 0.5 UJ	0.52 U 0.52 U	0.5 U 0.5 U	0.5 U 0.5 U	0.52 U 0.52 U	0.5 U 0.5 U	0.5 U 0.5 U	0.5 U 0.5 U	0.52 U 0.52 U	na	0.5 U 0.5 U	0.5 U 0.5 U	0.5 U 0.5 U
B-1242 (Aroclor 1242)	ug/1 ug/1	NS	0.09	0.5 U	na	0.5 U	0.5 U	0.5 U	0.52 U	na	0.5 U	0.52 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.52 U	0.5 U	0.5 U	0.52 U	0.5 U	0.5 U	0.5 U	0.52 U	na	0.5 U	0.5 U	0.5 U
3-1248 (Aroclor 1248)	ug/l	NS	0.09	0.5 U	na	0.5 U	0.5 U	0.5 U	0.52 U	na	0.5 U	0.52 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.52 U	0.5 U	0.5 U	0.52 U	0.5 U	0.5 U	0.5 U	0.52 U	na	0.5 U	0.5 U	0.5 U
3-1254 (Aroclor 1254) 3-1260 (Aroclor 1260)	ug/l ug/l	NS	0.09	0.5 U 0.5 U	na na	0.5 U 0.5 U	0.5 U 0.5 U	0.5 U 0.5 U	0.52 U 0.52 U	na na	0.5 U 0.5 U	0.52 U 0.52 U	0.5 U 0.5 U	0.5 U 0.5 U	0.5 U 0.5 U	0.5 U 0.5 U	0.5 UJ 0.5 UJ	0.52 U 0.52 U	0.5 U 0.5 U	0.5 U 0.5 U	0.52 U 0.52 U	0.5 U 0.5 U	0.5 U 0.5 U	0.5 U 0.5 U	0.52 U 0.52 U	na na	0.5 U 0.5 U	0.5 U 0.5 U	0.5 U 0.5 U
otes and Abbreviations //L - nanograms per liter g/L - miligrams per liter - Compound not detected Estimated value - Primary sample D - Field duplicate sample - Sample not analyzed for this parameter - No standard		NYSDEC TOGSI	ates detected value 11 - Standards liste ates exceedance of	ed are the New Yo		ent of Environmen	atal Conservation (N	NYSDEC) Division																					



# Table 10 - Analytical Results for Other Parameters from Groundwater APS SamplesFormer Oak-Mitsui - First Street

AnalyteUnitTCCIditile Organic Compounds (VOCs) by USEPA Method 8260C1,1-Trichloroethane (TCA)ug/11,2.2.Trichloroethane (TCA)ug/11,2.2.Trichloroethaneug/11,2.2.Trichloroethaneug/11,2.2.Trichloroethaneug/11,2.2.Trichloroethaneug/11,2.2.Trichloroethaneug/11,2.2.Trichloroethaneug/11.1.Dichloroethaneug/12,4.Trichlorobenzeneug/12,4.Trichlorobenzeneug/12,2.Dibromo-3-Chloropropaneug/12.Dibromo-3-Chloropropaneug/12.Dichlorobenzeneug/12.Dichloropropaneug/13.5.Trimethylbenzeneug/13.5.Trimethylbenzeneug/14.Dichlorobenzeneug/13.5.Trimethylbenzeneug/14.Dichlorobenzeneug/14.Dichlorobenzeneug/12.Dichloropropaneug/13.5.Trimethylbenzeneug/14.Dichlorobenzeneug/14.Dichlorobenzeneug/14.Dichlorobenzeneug/14.Dichlorobenzeneug/15.Trimethylbenzeneug/16.Trimethylbenzeneug/16.Trimethylbenzeneug/17.Trichlorobenzeneug/17.Trichlorobenzeneug/17.Trichlorobenzeneug/17.Trichlorobenzeneug/17.Trichlorobenzeneug/17.Trichlorobenzeneug/17.Trichlorobenzeneug/17.Trichlorobenzeneug/1 <t< th=""><th>NYDEC TOCSIII GA GUIDANCE 5 5 1 3 5 5 5 0.04 0.0006 3 0.04 0.0006 3 0.05 1 0.04 0.0006 3 3 0.05 1 1 5 5 3 3 3 5 5 5 5 5 5 5 5 5 5 5 5</th><th>Depth           NYDEC           TOGSI11 GA           STANDARD           NS           S0           50           50           50           S0           S0           NS           60           NS           NS           S0           NS           RS           NS           NS           NS           NS           NS     <!--</th--><th>1U       1U       1U</th><th>1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         3 J         1 U    </th><th>14       1U       1U</th><th>1U 1U 1U 1U 1U 1U 1U 1U 1U 1U</th><th>86.15         1U            1U          1U          1U          1U          1U          1U    </th><th>98.9 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U</th><th>14.3       1U       1U</th><th>86.1           16           4 U           4 U           120           13           4 U</th><th>14.7       1U       1U</th><th>433 3.7 J 4 U 4 U 4 U 4 U 4 U 4 U 4 U 4 U</th><th>50           8 U           8 U           8 U           130           16           8 U</th><th>83.1           84           8U           8U</th><th>14.5 1U 1U 1U 1U 1U 1U 1U 1U 1U 1U</th><th>1 U 1 U 1 U 1 U 2 3 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U</th><th>77.4           1.6           1 U           1 U           1 U           34           1.2           1 U</th><th>145 1U 1U 1U 1U 1U 1U 1U 1U 1U 1U</th><th>32.7 1U 1U 1U 1U 1U 1U 1U 1U 1U 1U</th><th>6.7           1U           1U</th><th>14.9 1.9 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0</th><th>36.9 300 25 U 25 U</th><th>43.2 350 20 U 20 U</th><th>14.5 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U</th><th>106.6 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U</th><th>14.6 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U</th><th>11.9 2 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U</th></th></t<>	NYDEC TOCSIII GA GUIDANCE 5 5 1 3 5 5 5 0.04 0.0006 3 0.04 0.0006 3 0.05 1 0.04 0.0006 3 3 0.05 1 1 5 5 3 3 3 5 5 5 5 5 5 5 5 5 5 5 5	Depth           NYDEC           TOGSI11 GA           STANDARD           NS           S0           50           50           50           S0           S0           NS           60           NS           NS           S0           NS           RS           NS           NS           NS           NS           NS </th <th>1U       1U       1U</th> <th>1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         3 J         1 U    </th> <th>14       1U       1U</th> <th>1U 1U 1U 1U 1U 1U 1U 1U 1U 1U</th> <th>86.15         1U            1U          1U          1U          1U          1U          1U    </th> <th>98.9 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U</th> <th>14.3       1U       1U</th> <th>86.1           16           4 U           4 U           120           13           4 U</th> <th>14.7       1U       1U</th> <th>433 3.7 J 4 U 4 U 4 U 4 U 4 U 4 U 4 U 4 U</th> <th>50           8 U           8 U           8 U           130           16           8 U</th> <th>83.1           84           8U           8U</th> <th>14.5 1U 1U 1U 1U 1U 1U 1U 1U 1U 1U</th> <th>1 U 1 U 1 U 1 U 2 3 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U</th> <th>77.4           1.6           1 U           1 U           1 U           34           1.2           1 U</th> <th>145 1U 1U 1U 1U 1U 1U 1U 1U 1U 1U</th> <th>32.7 1U 1U 1U 1U 1U 1U 1U 1U 1U 1U</th> <th>6.7           1U           1U</th> <th>14.9 1.9 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0</th> <th>36.9 300 25 U 25 U</th> <th>43.2 350 20 U 20 U</th> <th>14.5 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U</th> <th>106.6 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U</th> <th>14.6 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U</th> <th>11.9 2 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U</th>	1U       1U	1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         3 J         1 U	14       1U       1U	1U 1U 1U 1U 1U 1U 1U 1U 1U 1U	86.15         1U            1U          1U          1U          1U          1U          1U	98.9 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	14.3       1U	86.1           16           4 U           4 U           120           13           4 U	14.7       1U	433 3.7 J 4 U 4 U 4 U 4 U 4 U 4 U 4 U 4 U	50           8 U           8 U           8 U           130           16           8 U	83.1           84           8U           8U	14.5 1U 1U 1U 1U 1U 1U 1U 1U 1U 1U	1 U 1 U 1 U 1 U 2 3 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	77.4           1.6           1 U           1 U           1 U           34           1.2           1 U	145 1U 1U 1U 1U 1U 1U 1U 1U 1U 1U	32.7 1U 1U 1U 1U 1U 1U 1U 1U 1U 1U	6.7           1U           1U	14.9 1.9 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	36.9 300 25 U 25 U	43.2 350 20 U 20 U	14.5 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	106.6 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	14.6 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	11.9 2 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U
1,1-Trichloroethane (TCA)     ug/1       1,2.2-Trichloroethane     ug/1       1,2.Trichloroethane     ug/1       1.2.Trichloroethane     ug/1       1.Dichloroethane     ug/1       1.Dichloroethane     ug/1       2.4.Trixhlorobenzene     ug/1       2.4.Trixhlorobenzene     ug/1       2.4.Trixhlorobenzene     ug/1       2.4.Trixhlorobenzene     ug/1       2.1.Dichloroethane     ug/1       2.4.Trixhlorobenzene     ug/1       2.1.Dichlorobenzene     ug/1       2.Dichlorobenzene     ug/1       2.Dichlorobenzene     ug/1       2.Dichlorobenzene     ug/1       3.Dichlorobenzene     ug/1       3.Dichlorobenzene     ug/1       3.Dichlorobenzene     ug/1       4.Dichlorobenzene     ug/1       4.Dichlorobenzene     ug/1       5.Trimethylbenzene (Mesitylene)     ug/1       4.Dichlorobenzene     ug/1       1.Dichlorobenzene     ug/1       1.Dichonothane     ug/1       1.	5 5 5 5 5 5 5 0.04 0.0006 3 3 0.6 1 1 5 3 3 3 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	NS           S0           50           50           50           S0           S0           S0           S0           S0           NS           S0	1U	1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         3 J         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U	1U       0.94J       1U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1U         1U	4 U 4 U 4 U 4 U 120 4 U 4 U 4 U 4 U 4 U 4 U 4 U 4 U 4 U 4 U	1 U           1 U	4 U 4 U 4 U 110 23 4 U 4 U 4 U 4 U 4 U 4 U 4 U 4 U	8 U           8 U           8 U           130           16           8 U	8 U 8 U 8 U 140 17 8 U 8 U 8 U 8 U 8 U 8 U 8 U 8 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 2 3 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 34 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	25 U 25 U 25 U 25 U 25 U 25 U 25 U 25 U	20 U 20 U 20 U 20 U 20 U 20 U 20 U 20 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U
1,2.2-Tetrachloroethane     ug/1       1,2-Trichloro-1,2,2-Trifluoroethane     ug/1       1,2-Trichloroethane     ug/1       1-Dichloroethane     ug/1       1-Dichloroethane     ug/1       2,4-Trinchlyrbenzene     ug/1       2,4-Trinchlyrbenzene     ug/1       2,2-Dibromoethane (Ethylene Dibromide)     ug/1       2,2-Dibromethane (Ethylene Dibromide)     ug/1       2-Dichlorobenzene     ug/1       2-Dichlorobenzene     ug/1       2-Dichlorobenzene     ug/1       2-Dichlorobenzene     ug/1       2-Dichlorobenzene     ug/1       3,5-Trimethylbenzene (Mesitylene)     ug/1       3,5-Trimethylbenzene (Mesitylene)     ug/1       4-Dichlorobenzene     ug/1       4-Dichlorobenzene     ug/1       etone     ug/1       comodichloromethane     ug/1       comodichloromethane     ug/1       oromodethane     ug/1       oromodethane     ug/1       horoethane     ug/1       oromodethane     ug/1       oromodethane     ug/1       outoform     ug/1       othorobenzene     ug/1       othorobenzene     ug/1       othorobenzene     ug/1       oromodethane     ug/1       oro	5 5 5 5 5 5 5 0.04 0.0006 3 3 0.6 1 1 5 3 3 3 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	NS           S0           50           50           50           S0           S0           S0           S0           S0           NS           S0	1U	1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         3 J         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U	1U       0.94J       1U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1U         1U	4 U 4 U 4 U 4 U 120 4 U 4 U 4 U 4 U 4 U 4 U 4 U 4 U 4 U 4 U	1 U           1 U	4 U 4 U 4 U 110 23 4 U 4 U 4 U 4 U 4 U 4 U 4 U 4 U	8 U           8 U           8 U           130           16           8 U	8 U 8 U 8 U 140 17 8 U 8 U 8 U 8 U 8 U 8 U 8 U 8 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 2 3 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 34 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	25 U 25 U 25 U 25 U 25 U 25 U 25 U 25 U	20 U 20 U 20 U 20 U 20 U 20 U 20 U 20 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U
2-Trickloroethane     ug/1       Dickloroethane     ug/1       Dickloroethane     ug/1       A-Trinchlyberzene     ug/1       Dibromo-3-Chloropropane     ug/1       Dickloroethane     ug/1       Dickloroethane     ug/1       Dibromo-3-Chloropropane     ug/1       Dickloroethane     ug/1       Dickloroperspane     ug/1       Dickloromethane     ug/1       Ioroothane     ug/1       Ioroothane     ug/1       Ioroothane     ug/1       Ioroothane     ug	1 5 5 5 0.04 0.0006 3 0.6 1 1 5 3 3 3 3 8 5 5 5 5 5 5 5 5 7 7 5	NS           S0           50           S0           NS           NS           NS           NS           NS           NS           NS	1U	1 U       1 U	1U	1 U          1 U          1 U	1U 1U 1U 1U 1U 1U 1U 1U 1U 1U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1U           1U	4 U 120 13 4 U 4 U 4 U 4 U 4 U 4 U 4 U 4 U	1 U           1 U	4 U 110 23 4 U 4 U 4 U 4 U 4 U 4 U 4 U 4 U	8 U           130           16           8 U	8 U 140 17 8 U 8 U 8 U 8 U 8 U 8 U 8 U 8 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1U 2.3 1U 1U 1U 1U 1U 1U 1U 1U 1U 1U 1U 1U 1U	1 U 34 1.2 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1U 1U 1U 1U 1U 1U 1U 1U 1U 1U	1 U 13 0.46 J 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	25 U 150 28 25 U 25 U	20 U 150 25 20 U 20 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1.1 0.35 J 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U
Dichloroethane     ug/1       Dichloroethane     ug/1       Dichloroethane     ug/1       4-Trinchlybenzene     ug/1       Dibromo-Schloropropane     ug/1       Dichloroethane     ug/1       Dichloroethane     ug/1       Dichloroethane     ug/1       Dichloroethane     ug/1       Dichlorobenzene     ug/1       Dichloroethane     ug/1       onoe     ug/1       modichloromethane     ug/1       oroethane     ug/1       oroethane     ug/1       oroethane     ug/1       oroethane     ug/1       1.3-Dichloroepropene     ug/1       1.3-Dichloroethylene     ug/1       1.3-Dichloroethane     ug/1       1.3-Dichloroethane     ug/1       1.3-Dichlor	5 5 5 0.04 0.0006 3 0.6 1 5 3 3 3 NS 1 5 NS 5 5 NS 5 5 5 5 7 7 5	NS           S0           50           50           S0           S0           S0           NS           60           NS	1U	1 U       1 U	1U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1U           1U	120           13           4U	1 U           1 U	110           23           4 U	130           16           8 U	140 17 8 U 8 U 8 U 8 U 8 U 8 U 8 U 8 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	2.3 1.U 1.U 1.U 1.U 1.U 1.U 1.U 1.U	34           1.2           1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	13 0.46 J 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	150           28           25 U	150           25           20 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1.1 0.35 J 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U
Dichoroethene         ug/1           4-Trinchlorobenzene         ug/1           4-Trinchlorobenzene         ug/1           Dibromo-3-Chloropropane         ug/1           Dibromo-3-Chloropropane         ug/1           Dibromo-1-Chloropropane         ug/1           Dichoropenane         ug/1           Dichoropenane         ug/1           Dichoropopane         ug/1           Dichoropopane         ug/1           Dichloropopane         ug/1           Dichlorobenzene         ug/1           Dichlorofen         ug/1           Status         ug/1           Dichlorofen         ug/1           Dichlorobenzene         ug/1           Dichlorobenzene         ug/1           Dichlorofen         ug/1           Dichoromethane	5 5 0.04 0.0006 3 0.6 1 5 3 3 NS NS 1 NS 1 NS 5 5 5 7 5	NS           S0           50           50           50           S0           NS           60           NS	1U	1 U       1 U	1U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1U	13           4U	1 U           1 U	23 4 U 4 U 4 U 4 U 4 U 4 U 4 U 4 U	16 8 U 8 U 8 U 8 U 8 U 8 U 8 U 8 U	17 8 U 8 U 8 U 8 U 8 U 8 U 8 U 8 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1.2 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	0.46 J 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	28 25 U 25 U	25 20 U 20 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	0.35 J 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U
4-Trichlorobenzene       ug/1         4-Trimethylbenzene       ug/1         Dibromo-3-Chloropropane       ug/1         Dibromo-3-Chloropropane       ug/1         Dibromo-3-Chloropropane       ug/1         Dibromo-3-Chloropropane       ug/1         Dichloropropane       ug/1         Dichloropropane       ug/1         Dichloropropane       ug/1         Dichloropropane       ug/1         Dichloropropane       ug/1         Dichloropropane       ug/1         Dichlorobenzene       ug/1         Dichlorobenzene       ug/1         Dichlorobenzene       ug/1         Dichlorobenzene       ug/1         Dichlorobenzene       ug/1         modorfm       ug/1         modorfm       ug/1         modorfm       ug/1         modorfm       ug/1         modorfm       ug/1         orobenzene       ug/1         labexane <t< td=""><td>5 0.04 0.0006 3 0.6 1 5 3 NS NS 1 NS 5 NS 5 NS 5 NS 5 5 NS 5 5 7 7 5</td><td>NS           NS           NS           NS           NS           NS           NS           S0           50           50           S0           S0           NS           NS</td><td>1U       1U       1U</td><td>1 U       1 U</td><td>1U       1U       1U</td><td>1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U</td><td>1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U</td><td>1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U</td><td>1U           1U           1U</td><td>4 U 4 U 4 U 4 U 4 U 4 U 4 U 4 U 4 U 4 U</td><td>1U           1U           1U</td><td>4 U 4 U 4 U 4 U 4 U 4 U 4 U 4 U</td><td>8 U 8 U 8 U 8 U 8 U 8 U 8 U 8 U</td><td>8 U 8 U 8 U 8 U 8 U 8 U 8 U 8 U</td><td>1U 1U 1U 1U 1U 1U 1U 1U 1U 1U</td><td>1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U</td><td>1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U</td><td>25 U 25 U 25 U 25 U 25 U 25 U 25 U 25 U</td><td>20 U 20 U 20 U 20 U 20 U 20 U 20 U 20 U</td><td>1U 1U 1U 1U 1U 1U 1U 1U 1U 1U 1U 1U 1U 1</td><td>1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U</td><td>1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U</td><td>1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U</td></t<>	5 0.04 0.0006 3 0.6 1 5 3 NS NS 1 NS 5 NS 5 NS 5 NS 5 5 NS 5 5 7 7 5	NS           NS           NS           NS           NS           NS           NS           S0           50           50           S0           S0           NS	1U	1 U       1 U	1U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1U	4 U 4 U 4 U 4 U 4 U 4 U 4 U 4 U 4 U 4 U	1U	4 U 4 U 4 U 4 U 4 U 4 U 4 U 4 U	8 U 8 U 8 U 8 U 8 U 8 U 8 U 8 U	8 U 8 U 8 U 8 U 8 U 8 U 8 U 8 U	1U 1U 1U 1U 1U 1U 1U 1U 1U 1U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	25 U 25 U 25 U 25 U 25 U 25 U 25 U 25 U	20 U 20 U 20 U 20 U 20 U 20 U 20 U 20 U	1U 1U 1U 1U 1U 1U 1U 1U 1U 1U 1U 1U 1U 1	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U
Dibromo-3-Chloropropane     ug/1       Dibromo-3-Chloropropane     ug/1       Dichlorobenzene     ug/1       Dichloropopane     ug/1       5-Trimethylbenzene (Mesitylene)     ug/1       Dichlorobenzene     ug/1       modichloromethane     ug/1       modichloromethane     ug/1       bon Disulfide     ug/1       orobenzene     ug/1       orobenzene     ug/1       orobenzene     ug/1       oroform     ug/1       oroform     ug/1       oroform     ug/1       1,2-Dichloropropene     ug/1       idohexane     ug/1       nene     ug/1       idohexane     ug/1       idohexane     ug/1       ihlorodifluoromethane     ug/1       ihlorodifluoromethane     ug/1       ihly1 Acetate     ug/1       thy1	0.04 0.0006 3 0.6 1 5 3 3 3 3 NS NS NS 5 NS 5 5 5 5 5 5 7 7 5	NS           NS           NS           NS           NS           NS           S0           50           50           S0           S0           NS           NS           NS           NS           S0           NS           S0           NS	1U	1 U       1 U       1 U       1 U       1 U       1 U       1 U       1 U       3 J       1 U	1U       1U       1U       1U       1U       1U       0.94 J       1U       5U       10U       1U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1U	4 U 4 U 4 U 4 U 4 U 4 U 4 U 4 U 4 U 4 U	1 U           1 U	4 U 4 U 4 U 4 U 4 U 4 U 4 U 4 U	8U	8 U 8 U 8 U 8 U 8 U 8 U 8 U 40 U 8 U 8 U 8 U 8 U 8 U 8 U 8 U 8	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	25 U 25 U 25 U 25 U 25 U 25 U 25 U 25 U	20 U 20 U 20 U 20 U 20 U 20 U 20 U 20 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 5 U 10 U 1 U 1 U 1 U
Dibromothane (Ethylene Dibromide)     ug/l     ug/l       Dichlorobenzene     ug/l       modichloromethane     ug/l       modichloromethane     ug/l       Dirobenzene     ug/l	0.0006 3 0.6 1 5 3 3 NS NS 1 NS 5 NS 5 5 5 7 5 5	NS           NS           NS           NS           NS           NS           S0           50           50           S0           NS           60           NS	1U	1 U       1 U       1 U       1 U       1 U       1 U       1 U       3 J       1 U	1U       1U       1U       1U       1U       0.94 J       1U       5U       10U       1U	1 U 1 U 1 U 1 U 1 U 0.97 J 1 U 5 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1U	4 U 4 U 4 U 4 U 4 U 4 U 4 U 4 U 4 U 4 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 5 U 1	4 U 4 U 4 U 4 U 4 U 4 U 4 U 20 U 4 U 4 U 4 U 4 U 4 U 4 U 4 U 4	8 U 8 U 8 U 8 U 8 U 8 U 40 U 8 U 8 U 8 U 8 U 8 U 8 U 8 U 8	8 U 8 U 8 U 8 U 8 U 8 U 40 U 8 U 8 U 8 U 8 U 8 U 8 U 8 U 8	1U 1U 1U 1U 1U 1U 1U 1U 1U 1U 1U 1U 1U 1	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	25 U 25 U 25 U 25 U 25 U 25 U 25 U 25 U	20 U 20 U 20 U 20 U 20 U 20 U 20 U 20 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 5 U 3.1 J 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 5 U 1 0 U 1 U 1 U 1 U
Dichlorobenzene     ug/1       Dichloroperpopane     ug/1       Dichloropropane     ug/1       S-Trimethylbenzene (Mesitylene)     ug/1       Dichlorobenzene     ug/1       mone     ug/1       Dichlorobenzene     ug/1       moform     ug/1       modichloromethane     ug/1       bon Tetrachloride     ug/1       oroethane     ug/1       oroethane     ug/1       oroethane     ug/1       oroethane     ug/1       upblichloropropene     ug/1       upblichloropropene     ug/1       upblichloropropene     ug/1       upblichloropropene     ug/1       uprodichloromethane     ug/1       uprodichloromethane     ug/1       uprodichloromethane     ug/1       uprodichloromethane     ug/1       uprodichloromethane     ug/1       uprodichloromethane     ug/1       uproducture     ug/1       uprodichloromethane     ug/1       uprotherzene (Cumene)	3 0.6 1 5 3 3 NS NS 1 NS 5 5 5 7 5	NS           NS           NS           NS           S0           50           50           50           NS           60           NS	1U	1 U       1 U       1 U       1 U       1 U       5 U       3 J       1 U	1U       1U       1U       1U       0.94 J       1U       5U       10 U       1U	1 U 1 U 1 U 1 U 1 U 2 (97) 1 U 5 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 3 2 J 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	4 U 4 U 4 U 4 U 4 U 4 U 2 0 U 4	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	4 U 4 U 4 U 4 U 4 U 4 U 20 U 40 U 4 U 4 U 4 U 4 U 4 U 4 U 4 U 4	8 U 8 U 8 U 8 U 8 U 8 U 8 U 8 U	8 U 8 U 8 U 8 U 8 U 8 U 8 U 8 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 5 U 10 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 5 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1	25 U 25 U 25 U 25 U 25 U 25 U 25 U 25 U	20 U 20 U 20 U 20 U 20 U 20 U 20 U 20 U	1 U 1 U 1 U 1 U 1 U 1 U 5 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 5 U 44 J 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 5 U 3.1 J 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 5 U 10 U 1 U 1 U 1 U
Dichloroethane     ug/1       Dichloropropane     ug/1       Dichloropropane     ug/1       Dichlorobenzene     ug/1       Dichlorobenzene     ug/1       Dichlorobenzene     ug/1       Dichlorobenzene     ug/1       Dichlorobenzene     ug/1       tone     ug/1       Dichlorobenzene     ug/1       tone     ug/1       modichloromethane     ug/1       momorthane     ug/1       bon Disulfide     ug/1       bon Tetrachloride     ug/1       oroethane     ug/1       oroethane     ug/1       oroethane     ug/1       oroethane     ug/1       labexane     ug/1       lobexane     ug/1       lobexane     ug/1       uene     ug/1       lorodifluoromethane     ug/1       lorodifluoromethane     ug/1       loloexane     ug/1	1 5 3 NS NS 1 NS 5 NS 5 5 5 5 7 7 5	NS           NS           S0           50           50           S0           NS           0           NS           0           NS           0           NS           60           NS	1U       1U       1U       1U       5U       10U       1U	1 U       1 U       1 U       5 U       3 J       1 U	1U       1U       0.94 J       1U       5U       10U       1U	1 U 1 U 0.97 J 1 U 5 U 10 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1	1 U 1 U 1 U 1 U 5 U 10 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1	1 U 1 U 1 U 1 U 5 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1	1 U 1 U 1 U 1 U 1 U 3 U 3 2 J 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	4 U 4 U 4 U 4 U 20 U 4	1 U 1 U 1 U 1 S 5 U 1	4 U 4 U 4 U 4 U 20 U 40 U 4 U 4 U 4 U 4 U 4 U 4 U 4 U 4	8 U 8 U 8 U 8 U 40 U 8	8 U 8 U 8 U 8 U 8 U 8 U 8 U 8 U 8 U 8 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 5 U 1 0 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 5 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 5 U 10 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 5 U 10 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 5 U 10 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 5 U 1 U 1 U 1 U 1 U 1 U 1 U	25 U 25 U 25 U 25 U 130 U 250 U 25 U 25 U 25 U 25 U 25 U 25 U	20 U 20 U 20 U 20 U 20 U 200 U 20 U 20 U	1 U 1 U 1 U 1 U 5 U 10 U 1 U 1 U 1 U	1 U 1 U 1 U 5 U 4.4 J 1 U 1 U 1 U 1 U	1 U 1 U 1 U 5 U 3.1 J 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 5 U 10 U 1 U 1 U
5-Trimethylbenzene (Mesitylene) ug/1 Dichlorobenzene ug/1 exanone ug/1 exanone ug/1 exanone ug/1 tone ug/1 modichloromethane ug/1 modichloromethane ug/1 momethane ug/1 momethane ug/1 bon Disufide ug/1 bon Tetrachloride ug/1 orobenzene ug/1 orobenzene ug/1 oroform ug/1 1,2-Dichloroptylene ug/1 1,2-Dichloroptylene ug/1 1,3-Dichloroptylene ug/1 il.2-Dichloroptylene ug/1 il.2-Dichloroptylene ug/1 il.2-Dichloroptylene ug/1 il.2-Dichloroptylene ug/1 il.2-Dichloroptylene ug/1 hohexane ug/1 slorodifluoromethane u	5 3 NS NS 1 NS S S S 5 5 5 5 7 7 5	NS           NS           50           50           50           50           S0           60           NS	1U       1U       1U       5U       10U       1U	1 U       1.2       1 U       5 U       3 J       1 U	1U       0.94 J       1U       5U       10U       1U	1 U 0.97 J 1 U 5 U 10 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1	1 U 1 U 1 U 5 U 10 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1	1 U 1 U 5 U 1	1 U 1 U 1 U 3 U 3 Z J 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	4 U 4 U 4 U 20 U 40 U 4 U 4 U 4 U 4 U 4 U 4 U 4 U 4 U 4 U	1 U 1.8 1 U 5 U 10 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1	4 U 4 U 20 U 4	8 U 8 U 40 U 80 U 80 U 8 U 8 U 8 U 8 U 8 U 8 U 8 U 8 U 8 U	8 U 8 U 40 U 80 U 8	1 U 1 U 1 U 5 U 10 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1	1 U 1 U 5 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 5 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 5 U 10 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 5 U 1 0 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 5 U 1 0 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1.2 1 U 5 U 10 U 1 U 1 U 1 U 1 U 1 U 1 U	25 U 25 U 25 U 250 U 250 U 250 U 25 U 25 U 25 U 25 U 25 U	20 U 20 U 20 U 20 U 200 U 20 U 20 U 20 U	1 U 1 U 1 U 5 U 10 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 5 U 4.4 J 1 U 1 U 1 U 1 U	1 U 1 U 5 U 3.1 J 1 U 1 U 1 U 1 U	1 U 1 U 1 U 5 U 10 U 1 U 1 U
Dichlorobenzene     ug/l       Dichlorobenzene     ug/l       Dichlorobenzene     ug/l       exanone     ug/l       tone     ug/l       modichloromethane     ug/l       modichloromethane     ug/l       modichloromethane     ug/l       oon Tetrachloride     ug/l       orobenzene     ug/l       orobenzene     ug/l       orobenzene     ug/l       oroomethane     ug/l       oroothane     ug/l       oroomethane     ug/l       oroothane     ug/l       oroomethane     ug/l       oroothane     ug/l       l,2-Dichloroothylene     ug/l       ug/l     ug/l       obexane     ug/l       ug/l     ug/l       olotodifluoromethane     ug/l       ulorodifluoromethane     ug/l       ulorodifluoromethane     ug/l       hyl Acetate     ug/l       hyl Ethyl Ketone (2-Butanone)     ug/l       hyl Isbolytly Ketone (4-Methyl-2-Pentanone     ug/l       hyl koyclohexane     ug/l	3 3 NS NS 1 NS 5 NS 5 5 5 5 7 7 5	NS           NS           50           50           50           50           50           50           50           50           50           50           50           50           NS	1U       1U       5U       10U       1U	1.2       1 U       5 U       3 J       1 U	0.94 J           1 U           5 U           10 U           1 U	0.97 J 1 U 5 U 10 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1	1 U 1 U 5 U 10 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1	1 U 1 U 5 U 10 U 1	1 U 1 U 5 U 3 2 J 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	4 U 4 U 20 U 40 U 4	1.8 1U 5U 10U 1U 1U 1U 1U 1U 1U 1U 1U 1U	4 U 4 U 20 U 40 U 4 U 4 U 4 U 4 U 4 U 4 U 4 U 4	8 U 8 U 40 U 80 U 8	8 U 8 U 40 U 80 U 8	1 U 1 U 5 U 10 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 5 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 5 U 10 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 5 U 10 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 5 U 10 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 5 U 10 U 1 U 1 U 1 U 1 U 1 U	1.2           1 U           5 U           10 U           1 U           1 U           1 U           1 U           1 U           1 U           1 U	25 U 25 U 130 U 250 U 25 U 25 U 25 U 25 U 25 U 25 U	20 U 20 U 100 U 200 U 20 U 20 U 20 U 20 U 20 U	1 U 1 U 5 U 10 U 1 U 1 U 1 U	1 U 1 U 5 U 4.4 J 1 U 1 U 1 U 1 U	1 U 1 U 5 U 3.1 J 1 U 1 U 1 U 1 U	1 U 1 U 5 U 10 U 1 U 1 U
Dichlorobenzene     ug/1       exanone     ug/1       exanone     ug/1       torne     ug/1       torne     ug/1       noform     ug/1       noform     ug/1       noform     ug/1       nomethane     ug/1       son Disulfide     ug/1       orobenzene     ug/1       orobenzene     ug/1       oroofhane     ug/1       oroofhane     ug/1       oroofhane     ug/1       urootehane     ug/1       oroofhane     ug/1       uroothane     ug/1       uroothoromethane     ug/1	3 NS NS 1 NS 5 NS 5 5 5 7 7 5	NS           50           50           50           50           0           50           NS           60           NS	1U       5U       10U       1U	1 U       5 U       3 J       1 U	1U       5U       10U       1U	1 U 5 U 10 U 1	1 U 5 U 10 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1	1 U 5 U 10 U 1	1U 5U 3.2J 1U 1U 1U 1U 1U 1U 1U 1U 1U 1U	4 U 20 U 40 U 4 U 4 U 4 U 4 U 4 U 4 U 4 U 4 U 4 U	1 U 5 U 10 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	4 U 20 U 40 U 4 U 4 U 4 U 4 U 4 U 4 U 4 U 4 U	8 U 40 U 80 U 8 U 8 U 8 U 8 U 8 U 8 U 8 U 8 U 8 U	8 U 40 U 80 U 8 U 8 U 8 U 8 U 8 U 8 U 8 U 8 U	1 U 5 U 10 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 5 U 10 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 5 U 10 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 5 U 10 U 1 U 1 U 1 U 1 U 1 U	1 U 5 U 10 U 1 U 1 U 1 U 1 U 1 U	1 U 5 U 10 U 1 U 1 U 1 U 1 U 1 U	1 U 5 U 10 U 1 U 1 U 1 U 1 U 1 U	25 U 130 U 250 U 25 U 25 U 25 U 25 U 25 U 25 U	20 U 100 U 200 U 20 U 20 U 20 U 20 U 20 U	1 U 5 U 10 U 1 U 1 U 1 U	1 U 5 U 4.4 J 1 U 1 U 1 U	1 U 5 U 3.1 J 1 U 1 U 1 U	1 U 5 U 10 U 1 U 1 U
xanone     ug/1       one     ug/1       ene     ug/1       nodichloromethane     ug/1       nonform     ug/1       nonform     ug/1       ono methane     ug/1       on Disulfide     ug/1       on Tetrachloride     ug/1       roberzene     ug/1       roberthane     ug/1       roberzene     ug/1       romethane     ug/1       roberthane     ug/1       romethane     ug/1       roberthane     ug/1       ondexane     ug/1       ondexane     ug/1       ondexane     ug/1       obexane     ug/1       lorodifluoromethane     ug/1       lorodifluoromethane     ug/1       lorodifluoromethane     ug/1       up1 Acetate     ug/1       up1 Ehyl Ketone (2-Butanone)     ug/1       up1 Ebyl Ketone (4-Methyl-2-Pentanone     ug/1       up1 Sobutyl Ketone (4-Methyl-2-Pentanone     ug/1	NS 1 NS 5 NS 5 5 5 5 7 7 5	50 NS 50 NS 60 NS NS NS NS NS NS NS NS NS	5U 10U 1U 1U 1U 1U 1U 1U 1U 1U 1U 1	5U       3J       1U	5 U       10 U       1 U	5 U 10 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1	5 U 10 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1	5 U 10 U 1	5 U           3.2 J           1 U           1 U           1 U           1 U           1 U           1 U           1 U           1 U           1 U           1 U           1 U           1 U           1 U           1 U           1 U           1 U           1 U           1 U	20 U 40 U 4 U 4 U 4 U 4 U 4 U 4 U 4 U 4 U 4 U	5 U 10 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	20 U 40 U 4 U 4 U 4 U 4 U 4 U 4 U 4 U 4 U 4 U	40 U 80 U 8 U 8 U 8 U 8 U 8 U 8 U 8 U 8 U 8 U	40 U 80 U 8 U 8 U 8 U 8 U 8 U 8 U 8 U 8 U 8 U	5 U 10 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	5U 10U 1U 1U 1U 1U 1U 1U 1U	5 U 10 U 1 U 1 U 1 U 1 U 1 U 1 U	5 U 10 U 1 U 1 U 1 U 1 U 1 U	5 U 10 U 1 U 1 U 1 U 1 U 1 U	5 U 10 U 1 U 1 U 1 U 1 U 1 U	5 U 10 U 1 U 1 U 1 U 1 U 1 U	130 U 250 U 25 U 25 U 25 U 25 U 25 U	100 U 200 U 20 U 20 U 20 U 20 U 20 U	5 U 10 U 1 U 1 U 1 U	5 U 4.4 J 1 U 1 U 1 U	5 U 3.1 J 1 U 1 U 1 U 1 U	5 U 10 U 1 U 1 U
op/1         ug/1           nodichloromethane         ug/1           nomethane         ug/1           nomethane         ug/1           nomethane         ug/1           nomethane         ug/1           nomethane         ug/1           nomethane         ug/1           on Disulfide         ug/1           on Tetrachloride         ug/1           robenzene         ug/1           roroethane         ug/1           oromethane         ug/1           j.2-Dichloroethylene         ug/1           usp/1         ug/1           obexane         ug/1           onochloromethane         ug/1           lorodifluoromethane         ug/1           lbenzene         ug/1           up/1 Acetate         ug/1           up/1 Ethyl Ketone (2-Butanone)         ug/1           up/1 Subutyl Ketone (4-Methyl-2-Pentanone         ug/1           up/s/cohexane         ug/1	1 NS 5 NS 5 5 5 5 7 5 7 5	NS           50           50           60           NS	1U 1U 1U 1U 1U 1U 1U 1U 1U 1U 1U 1U 1U 1	1 U       1 U       1 U       1 U       1 U       1 U       1 U       1 U       1 U       1 U       1 U       1 U       1 U       1 U       1 U       1 U       1 U       1 U       1 U       1 U	1U	1U 1U 1U 1U 1U 1U 1U 1U 1U 1U 1U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1U 1U 1U 1U 1U 1U 1U 1U 1U 1U	4 U 4 U 4 U 4 U 4 U 4 U 4 U 4 U 4 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	4 U 4 U 4 U 4 U 4 U 4 U 4 U 4 U 4 U	8U 8U 8U 8U 8U 8U 8U 8U	8 U 8 U 8 U 8 U 8 U 8 U 8 U 8 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U	25 U 25 U 25 U 25 U 25 U	20 U 20 U 20 U 20 U 20 U	1 U 1 U 1 U	1 U 1 U 1 U	1 U 1 U 1 U	1 U 1 U
nodichloromethane         ug/1           noform         ug/1           normethane         ug/1           oon Disulfide         ug/1           oon Disulfide         ug/1           oon Tetrachloride         ug/1           robenzene         ug/1           orof Tetrachloride         ug/1           roethane         ug/1           oroform         ug/1           romethane         ug/1           _2-Dichloroethylene         ug/1           _2-Dichloropopene         ug/1           ohexane         ug/1           onochloromethane         ug/1           lorodifluoromethane         ug/1           lbenzene         ug/1           up/1 Acetate         ug/1           up/1 Kethyl Ketone (2-Butanone)         ug/1           up/1 lsobutyl Ketone (4-Methyl-2-Pentanone         ug/1           up/1 lsobutyl Ketone         ug/1	NS 5 NS 5 5 5 7 5 5	50 50 NS 60 NS NS NS NS NS NS NS NS NS	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U           1 U           1 U           1 U           1 U           1 U           1 U           1 U           1 U           1 U           1 U           1 U           1 U           1 U           1 U           1 U	1U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1U 1U 1U 1U 1U 1U 1U 1U 1U	4 U 4 U 4 U 4 U 4 U 4 U 4 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U	4 U 4 U 4 U 4 U 4 U 4 U 4 U	8 U 8 U 8 U 8 U 8 U 8 U 8 U	8 U 8 U 8 U 8 U 8 U 8 U 8 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U	1U 1U 1U 1U 1U 1U	1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U	1 U 1 U 1 U	1 U 1 U 1 U	1 U 1 U 1 U	25 U 25 U 25 U	20 U 20 U 20 U	1 U 1 U	1 U 1 U	1 U 1 U	1 U
000           ug/1           nomethane         ug/1           nomethane         ug/1           on Disulfide         ug/1           on Textachoride         ug/1           robenzene         ug/1           rorethane         ug/1           rorethane         ug/1           romethane         ug/1           romethane         ug/1           schorzethylene         ug/1           uschorzethylene         ug/1           obexane         ug/1           omochloromethane         ug/1           omochloromethane         ug/1           ubezane         ug/1           up/1 Acetate         ug/1           up/1 Acetate         ug/1           up/1 Ehyl Ketone (2-Butanone)         ug/1           up/1 Lobutyl Ketone (4-Methyl-2-Pentanone         ug/1           up/2 coloexane         ug/1	NS 5 NS 5 5 5 7 5 5	50           NS           60           NS	1 U           1 U           1 U           1 U           1 U           1 U           1 U           1 U           1 U           1 U           1 U           1 U           1 U           1 U           1 U           1 U           1 U           1 U           1 U           1 U	1 U           1 U           1 U           1 U           1 U           1 U           1 U           1 U           1 U           1 U           1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U	1U 1U 1U 1U 1U 1U 1U	4 U 4 U 4 U 4 U 4 U 4 U	1 U 1 U 1 U 1 U 1 U 1 U	4 U 4 U 4 U 4 U 4 U 4 U	8 U 8 U 8 U 8 U 8 U 8 U	8U 8U 8U 8U 8U 8U	1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U	25 U 25 U	20 U 20 U	1 U	1 U	1 U	
nomethane     ug/1       on Disulfide     ug/1       on Tetrachloride     ug/1       robenzene     ug/1       rocethane     ug/1       rorethane     ug/1       romethane     ug/1       romethane     ug/1       .2-Dichloroethylene     ug/1       ug/1     ug/1       .3-Dichloropopene     ug/1       onexane     ug/1       omochloromethane     ug/1       lorodifluoromethane     ug/1       lbenzene     ug/1       up/1 Acetate     ug/1       uyl Acetate     ug/1       uyl Ethyl Ketone (2-Butanone)     ug/1       uyl Lisbutyl Ketone (4-Methyl-2-Pentanone     ug/1       uylchohexane     ug/1	NS 5 5 7 7 5	60 NS NS NS NS NS NS NS	1 U           1 U           1 U           1 U           1 U           1 U           1 U           1 U           1 U           1 U           1 U           1 U           1 U           1 U           1 U           1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1U 1U 1U 1U 1U 1U 1U 1U	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U	4 U 4 U 4 U 4 U 4 U	1 U 1 U 1 U 1 U	4 U 4 U 4 U 4 U 4 U	8 U 8 U 8 U 8 U 8 U	8 U 8 U 8 U 8 U 8 U	1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U	1 U 1 U	1 U	1 U	1 U	1 U	25 U	20 U				
on Tetrachloride         ug/l           orobenzene         ug/l           orobenzene         ug/l           corothane         ug/l           coform         ug/l           coform         ug/l           .2-Dichloroethylene         ug/l           .3-Dichloropropene         ug/l           onchloromethane         ug/l           orodifluoromethane         ug/l           orodifluoromethane         ug/l           optilenzene         ug/l           upylenzene (Cumene)         ug/l           yl Acetate         ug/l           yl Ethyl Ketone (2-Butanone)         ug/l           yl Isobutyl Ketone (4-Methyl-2-Pentanone         ug/l           ylcydohexane         ug/l	5 5 7 5	NS NS NS NS NS NS NS NS	1 U 1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U	1 U 1 U 1 U	4 U 4 U	1 U 1 U	4 U 4 U	8 U 8 U	8 U 8 U	1 U 1 U	1 U		1 U	1 U	1 U	1 U	25 U	20 U		1 U	1 U	1 U
robenzene         ug/1           coethane         ug/1           coethane         ug/1           coform         ug/1           romethane         ug/1           zobekloredhylene         ug/1           s.2 Dichloropropene         ug/1           uhexane         ug/1           omochloropropene         ug/1           omochloroprotene         ug/1           omochloroprotene         ug/1           benzene         ug/1           opylbenzene (Cumene)         ug/1           ug/1 Ethyl Ketone (2-Butanone)         ug/1           yl Isobutyl Ketone (4-Methyl-2-Pentanone         ug/1           ylsyclohexane         ug/1	5 5 7 5	NS NS NS NS NS NS	1 U 1 U 1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U	1 U 1 U 1 U 1 U 1 U	1 U 1 U 1 U	1 U 1 U	1 U 1 U	4 U	1 U	4 U	8 U	8 U	1 U		1 U							1 U	1 U	1 U	1 U
oethane         ug/l           vororethane         ug/l           2-Dichloroethylene         ug/l           2-Dichloropropene         ug/l           3-Dichloropropene         ug/l           mene         ug/l           rne         ug/l           orodifluoromethane         ug/l           orodifluoromethane         ug/l           opylbenzene         ug/l           opylbenzene (Cumene)         ug/l           yl Acetate         ug/l           yl Ethyl Ketone (2-Butanone)         ug/l           ylsyclohexane         ug/l	7	NS NS NS NS NS	1 U 1 U 1 U 1 U	1 U 1 U 1 U	1 U 1 U 1 U	1 U 1 U 1 U	1 U 1 U	1 U	1 U							10		1 U	1 U	1 U	1 U	25 U	20 U	1 U	1 U	1 U	1 U
roform         ug/1           romethane         ug/1           .2-Dichloroethylene         ug/1           .3-Dichloropropene         ug/1           øbexane         ug/1           omochloropropene         ug/1           omochloromethane         ug/1           orodifluoromethane         ug/1           opylbenzene (Curnene)         ug/1           ugl Acetate         ug/1           yl Acetate         ug/1           yl Ethyl Ketone (2-Butanone)         ug/1           yl Josbutyl Ketone (4-Methyl-2-Pentanone         ug/1           ylyckohexane         ug/1	7	NS NS NS NS	1 U 1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U	1 U			40					1 U	1 U	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U	25 U 25 U	20 U 20 U	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U
romethane         ug/l           ,2-Dichloroethylene         ug/l           ,3-Dichloropropene         ug/l           ohexane         ug/l           ene         ug/l           monchloromethane         ug/l           lorodifluoromethane         ug/l           ropylbenzene (Curnene)         ug/l           uyl Acetate         ug/l           uyl Ethyl Ketone (2-Butanone)         ug/l           uyl Isobutyl Ketone (4-Methyl-2-Pentanone         ug/l           uylcyclohexane         ug/l		NS NS	1 U				1 U		1 U	4 U	1 U	4 U	8 U	8 U	1 U	10	1 U	10	1 U	1 U	10	25 U	20 U	1 U	10	1 U	1 U
1,3-Dichloropropene         ug/1           ohexane         ug/1           onexane         ug/1           omochloromethane         ug/1           orodifluoromethane         ug/1           ubroxdifluoromethane         ug/1           upl Acetate         ug/1           upl Subutyl Ketone (4-Methyl-2-Fentanone         ug/1           upl ylcyclohexane         ug/1	5	NS		1 U	1 U	1.11		1 U	1 U	4 U	1 U	4 U	8 U	8 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U	20 U	1 U	1 U	1 U	1 U
Iohexane         ug/1           nene         ug/1           romochloromethane         ug/1           ulorodifluoromethane         ug/1           vjlbenzene         ug/1           moropylbenzene (Cumene)         ug/1           hyl Acetate         ug/1           hyl Acetate         ug/1           hyl Sebutyl Ketone (2-Butanone)         ug/1           hyl Jsobutyl Ketone (4-Methyl-2-Pentanone         ug/1           hylcyclohexane         ug/1			1 U			1 U	1 U	1 U	1 U	3.4 J	1 U	4 U	8 U	8 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U	20 U	1 U	1 U	1 U	1 U
nene         ug/1           romochloromethane         ug/1           ulorodifluoromethane         ug/1           wropylbenzene         ug/1           wropylbenzene (Cumene)         ug/1           hyl Acetate         ug/1           hyl Ethyl Ketone (2-Butanone)         ug/1           hyl Isbutyl Ketone (4-Methyl-2-Fentanone         ug/1           hylyclohexane         ug/1	0.4		4.17		1 U	1 U	1 U	1 U	1 U	4 U	1 U	4 U	8 U	8 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U	20 U	1 U	1 U	1 U	1 U
romochloromethane         ug/l           lorodifluoromethane         ug/l           vlbenzene         ug/l           wopylbenzene (Cumene)         ug/l           hyl Acetate         ug/l           hyl Ethyl Ketone (2-Butanone)         ug/l           hyl Isbutyl Ketone (4-Methyl-2-Pentanone         ug/l           hylsobutyl Ketone         ug/l	NS 5	NS	1 UJ 1 U		1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U	4 U 4 U	1 U 1 U	4 UJ 4 UJ	8 U 8 U	8 U 8 U	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U	25 U 25 U	20 U 20 U	1 U 1 U	1 UJ 1 U	1 U 1 U	1 U 1 U
ug/1           vropylbenzene (Cumene)         ug/1           hyl Acetate         ug/1           hyl Acetate         ug/1           hyl Sebutyl Ketone (2-Butanone)         ug/1           hyl Isobutyl Ketone (4-Methyl-2-Pentanone         ug/1           hylyclohexane         ug/1	NS	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4 U	1 U	4 U	8 U	8 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U	20 U	1 U	1 U	1 U	1 U
woylbenzene (Cumene)         ug/1           hyl Acetate         ug/1           hyl Acetate         ug/1           hyl Ethyl Ketone (2-Butanone)         ug/1           hyl Isobutyl Ketone (4-Methyl-2-Pentanone         ug/1           hylcyclohexane         ug/1	5	NS	1 U	1 U	1 U	1 U	1 U	1 U	1	4 U	1 U	4 U	8 U	8 U	1 U	1 U	1 U	1 U	1 U	1 UJ	1 U	25 U	20 UJ	1 U	1 U	1 U	1 U
hyl Acetate     ug/1       hyl Ethyl Ketone (2-Butanone)     ug/1       hyl Isobutyl Ketone (4-Methyl-2-Pentanone     ug/1       hylcyclohexane     ug/1	5	NS	1 U		1 U	1 U	1 U	1 U	1 U	4 U	1 U	4 U	8 U	8 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U	20 U	1 U	1 U	1 U	1 U
hyl Ethyl Ketone (2-Butanone)         ug/1           hyl Isobutyl Ketone (4-Methyl-2-Fentanone         ug/1           hylyclohexane         ug/1	5 NS	NS	1 U 2.5 U		1 U 2.5 U	1 U 2.5 U	1 U 2.5 U	1 U 2.5 U	1 U 2.5 U	4 U 10 U	1 U 2.5 U	4 U 10 U	8 U 20 U	8 U 20 U	1 U 2.5 U	1 U 2.5 U	1 U 2.5 U	1 U 2.5 U	1 U 2.5 U	1 U 2.5 U	1 U 2.5 U	25 U 63 U	20 U 50 U	1 U 2.5 U	1 U 2.5 U	1 U 2.5 U	1 U 2.5 U
hylcyclohexane ug/1	NS	50	10 U		10 U	10 U	10 U	10 U	10 U	40 U	10 U	40 U	80 U	80 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	250 U	200 U	10 U	3.8 J	10 U	10 U
	NS	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	20 U	5 U	20 U	40 U	40 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	130 U	100 U	5 U	5 U	5 U	5 U
hylene Chloride ug/l	NS	NS	1 U		1 U	1 U	1 U	1 U	1 U	4 U	1 U	4 U	8 U	8 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U	20 U	1 U	1 U	1 U	1 U
	5 NS	NS 10	1 U 0.65 J		1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U	2.7 J 4 U	1 U 1 U	4 U 4 U	8 U 8 U	4.2 J 8 U	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U	25 U 25 U	20 U 20 U	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U
0,	5	10 NS	1 UJ		1 U	1 U	10	1 U	1 U	4 U 4 U	10	4 U 4 UJ	8U 8U	8 U	1 U	10	1 U	10	1 U	1 U	10	25 U 25 U	20 U	1 U	1U	1 U	1 U
opylbenzene ug/1	50	NS	1 UJ	1 UJ	1 U	1 U	1 U	1 U	1 U	4 U	1 U	4 UJ	8 U	8 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U	20 U	1 U	1 U	1 U	1 U
.8/	5	NS	1 UJ		1 U	1 U	1 U	1 U	1 U	4 U	1 U	4 UJ	8 U	8 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U	20 U	1 U	1 U	1 U	1 U
0	5	NS	1 U 1 U		1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U	4 U 4 U	1 U 1 U	4 U 4 U	8 U 8 U	8 U 8 U	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U	1 U	25 U 25 U	20 U 20 U	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U
. 8/	5 NS	NS 10	0.51 J		1 U 1 U	1 U 1 U	1 U 0.2 J	10	10	4 U 4 U	10	4 U 4 U	8 U 8 U	8 U 8 U	1 U 1 U	1 U 0.24 J	1 U 0.16 J	1 U 1 U	1 U 0.37 J	1 U 1 U	1 U 1 U	25 U 25 U	20 U 20 U	10	10	1 U 1 U	10
, , , , , , , , , , , , , , , , , , , ,	5	NS	1 U		1 U	1 U	1 U	1 U	1 U	4 U	1 U	4 U	8 U	8 U	1 U	1U	1 U	1 U	1 U	1 U	1 U	25 U	20 U	1 U	1 U	1 U	1 U
ene ug/l	5	NS	1 U	1 U	1 U	1 U	0.72 J	1 U	1 U	4 U	0.58 J	4 U	8 U	8 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U	20 U	1 U	1 U	1 U	1 U
	5	NS	1 U		1 U	1 U	1 U	1 U	1 U	4 U	1 U	4 U	8 U	8 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U	20 U	1 U	1 U	1 U	1 U
	0.4	NS	1 U 1 U		1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U	4 U 250	1 U 0.65 J	4 U 190	8 U 440	8 U 420	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1.5	1 U 4.4	25 U 1100	20 U 1000	1 U 1 U	1 U 0.71 J	1 U 1 U	1 U 18
7	5	NS	1 U		10	1 U 1 U	10	1 U 1 U	10	250 4 U	1 U	190 4 U	8 U	420 8 U	1 U 1 U	10	10	1 U	10	1.5 1 U	4.4 1 U	25 U	20 U	10	0.71 J 1 U	10	18 1 U
0	2	NS	1 U		1 U	1 U	1 U	1 U	1 U	4 U	1 U	4 U	8 U	8 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U	20 U	1 U	1 U	1 U	1 U
s and Abbreviations nanograms per liter Bold v L - milligrams per liter NYSD	NYSDEC TOGSI	NS cates detected value i111 - Standards listed cates exceedance of N		State Department of I	2 U Environmental O	2 U l Conservation (NY	2 U IYSDEC) Division	2 U	2 U	8 U	2 U	8 U	16 U	16 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	50 U	40 U	2 U	2 U	2 U	2 U



# Table 10 - Analytical Results for Other Parameters from Groundwater APS SamplesFormer Oak-Mitsui - First Street

			Location ID	FS-APS-001	FS-APS-002	FS-APS-003	FS-APS-003	FS-APS-003	FS-APS-003	FS-APS-004	FS-APS-004	FS-APS-005	FS-APS-005	FS-APS-005	FS-APS-005	FS-APS-006	FS-APS-006	FS-APS-006	FS-APS-007	FS-APS-007	FS-APS-007	FS-APS-008	FS-APS-008	FS-APS-008	FS-APS-009	FS-APS-009	FS-APS-010	FS-APS-011	FS-APS-011
				FS-APS-001 (15)	FS-APS-002 (13.9)	FS-APS-003 (14)	FS-APS-DUP1	FS-APS-003 (86.15)	FS-APS-003 (98.9)	FS-APS-004 (14.3)	FS-APS-004 (86.1)	FS-APS-005 (14.7)	FS-APS-005 (43.3)	FS-APS-005 (83.1)	FS-APS-DUP2	FS-APS-006 (14.5)	FS-APS-006 (57.9)	FS-APS-006 (77.4)	FS-APS-007 (14.5)	FS-APS-007 (32.7)	FS-APS-007 (74.6)	FS-APS-008 (14.9)	FS-APS-008 (36.9)	FS-APS-008 (43.2)	FS-APS-009 (14.5)	FS-APS-009 (106.6)	FS-APS-010 (14.6)	FS-APS-011 (11.9)	FS-APS-011 (22.9)
			Sample ID Sample Date	(10302018) 10/30/2018	(10302018) 10/30/2018	(10312018) 10/31/2018	(10312018) 10/31/2018	(11012018) 11/1/2018	(11012018) 11/1/2018	(11052018) 11/5/2018	(11062018) 11/6/2018	(11062018) 11/6/2018	(11072018) 11/7/2018	(11082018) 11/8/2018	(11082018) 11/8/2018	(10312018) 10/31/2018	(10312018) 10/31/2018	(11012018) 11/1/2018	(11012018) 11/1/2018	(11022018) 11/2/2018	(11052018) 11/5/2018	(11022018) 11/2/2018	(11022018) 11/2/2018	(11052018) 11/5/2018	(11062018) 11/6/2018	(11072018) 11/7/2018	(11082018) 11/8/2018	(11082018) 11/8/2018	(11092018) 11/9/2018
			Sample Type Validated - Y/N	N Y	N Y	N Y	FD Y	N Y	FD Y	N Y	N Y	N Y	N Y	N Y	N Y	N Y	N Y	N Y	N Y	N Y	N Y	N Y	N Y						
		NYDEC	Depth NYDEC	15	13.9	14	14	86.15	98.9	14.3	86.1	14.7	43.3	83.1	83.1	14.5	57.9	77.4	14.5	32.7	74.6	14.9	36.9	43.2	14.5	106.6	14.6	11.9	22.9
Analyte	Unit	TOGS111 GA GUIDANCE	TOGS111 GA STANDARD																										
Semivolatile Organic Compounds (SVOCs) by 1,4-Dioxane (P-Dioxane)	USEPA Method 8 ug/l	8270D SIM-ID NS	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.15 J	0.35	0.12 J	2 J	0.2 U	3.4	1.9 J	1.9 J	0.19 U	1.4 J	0.6	0.2 U	0.24	2.7 J	0.24	3.3 J	3.1 J	0.2 U	na	0.21 U	0.19 U	0.64
Semivolatile Organic Compounds (SVOCs) by 2,4,5-Trichlorophenol		8270D NS	NS	5 U	na	5 UJ	5 UJ	5 UJ	5 U	na	5 U	5.4 U	5 U	5 U	5 U	5 U	5 UI	5 U	5 U	5 U	5 U	7.8 U	5 U	5 U	5.2 U	na	5 U	5 U	5 U
2,4,6-Trichlorophenol	ug/l ug/l	NS	NS	5 U	na	5 U	5 U	5 U	5 U	na	5 U	5.4 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	7.8 U	5 U	5 U	5.2 U	na	5 U	5 U	5 U
2,4-Dichlorophenol	ug/l	1	NS 50	5 U 5 U	na na	5 U 5 U	5 U	5 U 5 U	5 U 5 U	na na	5 U 5 U	5.4 U 5.4 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	7.8 U 7.8 U	5 U 5 U	5 U 5 U	5.2 U	na na	5 U 5 U	5 U	5 U
2,4-Dimethylphenol 2,4-Dinitrophenol	ug/l ug/l	1	NS	10 U	na	10 U	5 U 10 U	10 U	10 U	na	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	16 U	10 U	10 U	5.2 U 10 U	na	10 U	5 U 10 U	5 U 10 U
2,4-Dinitrotoluene 2,6-Dinitrotoluene	ug/l	5	NS NS	5 U 5 U	na	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	na	5 U 5 U	5.4 U 5.4 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	7.8 U 7.8 U	5 U 5 U	5 U 5 U	5.2 U 5.2 U	na	5 U 5 U	5 U 5 U	5 U 5 U
2-Chloronaphthalene	ug/l ug/l	NS	10	5 U	na na	5 U	5 U	5 U	5 U	na na	5 U	5.4 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	7.8 U	5 U	5 U	5.2 U	na na	5 U	5 U	5 U
2-Chlorophenol	ug/l	NS	NS NS	5 U 5 U	na	5 U 5 U	5 U	5 U 5 U	5 U 5 U	na	5 U 5 U	5.4 U 5.4 U	5 U	5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U	5 U 5 U	5 U	5 U	7.8 U 7.8 U	5 U 5 U	5 U 5 U	5.2 U	na	5 U 5 U	5 U	5 U
2-Methylnaphthalene 2-Methylphenol (O-Cresol)	ug/l ug/l	NS	NS	5 U	na na	5 U	5 U 5 U	5 U	5 U	na na	5 U	5.4 U	5 U 5 U	5 U 5 U	5 U	5 U	5 U	5 U 5 U	5 U	0.75 J 5 U	5 U 5 U	7.8 U	5 U	5 U	5.2 U 5.2 U	na na	5 U	5 U 5 U	5 U 5 U
2-Nitroaniline	ug/1	5 NS	NS NS	10 U	na na	10 U 5 U	10 U	10 U	10 U 5 U	na na	10 U	11 U 5.4 U	10 U	10 U	10 U 5 U	10 U	10 U	10 U 5 U	10 U	10 U	10 U	16 U	10 U	10 U 5 U	10 U	na na	10 U 5 U	10 U	10 U 5 U
2-Nitrophenol 3,3'-Dichlorobenzidine	ug/l ug/l	5	NS	5 U 5 U	na	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	na	5 U 5 U	5.4 U 5.4 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	7.8 U 7.8 U	5 U 5 U	5 U 5 U	5.2 U 5.2 U	na na	5 U 5 U	5 U 5 U	5 U 5 U
3-Nitroaniline	ug/l	5	NS	10 UJ	na	10 U	10 U	10 U	10 U	na	10 UJ	11 UJ	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	16 U	10 U	10 U	10 UJ	na	10 U	10 U	10 U
4,6-Dinitro-2-Methylphenol 4-Bromophenyl Phenyl Ether	ug/l ug/l	NS	NS NS	10 U 5 U	na	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	na na	10 U 5 U	11 U 5.4 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	16 U 7.8 U	10 U 5 U	10 U 5 U	10 U 5.2 U	na na	10 U 5 U	10 U 5 U	10 U 5 U
4-Chloro-3-Methylphenol	ug/l	NS	NS	5 U	na	5 U	5 U	5 U	5 U	na	5 U	5.4 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	7.8 U	5 U	5 U	5.2 U	na	5 U	5 U	5 U
4-Chloroaniline 4-Chlorophenyl Phenyl Ether	ug/l ug/l	5 NS	NS NS	5 U 5 U	na na	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	na na	5 U 5 U	5.4 U 5.4 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	7.8 U 7.8 U	5 U 5 U	5 U 5 U	5.2 U 5.2 U	na	5 U 5 U	5 U 5 U	5 U 5 U
4-Methylphenol (P-Cresol)	ug/l	NS	NS	10 U	na	10 U	10 U	10 U	10 U	na	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	16 U	10 U	10 U	10 U	na	10 U	10 U	10 U
4-Nitrophenol	ug/l ug/l	5 NS	NS NS	10 U 10 U	na na	10 U 10 U	10 U 10 U	10 U 10 U	10 U 10 U	na	10 U 10 U	11 U 11 U	10 U 10 U	10 U 10 U	10 U 10 U	10 U 10 U	10 U 10 U	10 U 10 U	10 U 10 U	10 U 10 U	10 U 10 U	16 U 16 U	10 U 10 U	10 U 10 U	10 U 10 U	na na	10 U 10 U	10 U 10 U	10 U 10 U
Acenaphthene	ug/l	20	20	0.47 J	na	5 U	5 U	5 U	5 U	na	5 U	5.4 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	7.8 U	5 U	5 U	5.2 U	na	5 U	5 U	5 U
Acenaphthylene Acetophenone	ug/l ug/l	NS	NS	5 U 5 U	na	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	na	5 U 5 U	5.4 U 5.4 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	7.8 U 7.8 U	5 U 5 U	5 U 5 U	5.2 U 5.2 U	na na	5 U 5 U	5 U 5 U	5 U 5 U
Anthracene	ug/l	NS	50	5 U	na	5 U	5 U	5 U	5 U	na	5 U	5.4 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	7.8 U	5 U	5 U	5.2 U	na	5 U	5 U	5 U
Atrazine Benzaldehyde	ug/l ug/l	7.5 NS	NS	5 U 5 U	na	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	na	5 U 5 U	5.4 U 5.4 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	7.8 U 7.8 U	5 U 5 U	5 U 5 U	5.2 U 5.2 U	na	5 U 5 U	5 U 5 U	5 U 5 U
Benzo(A)Anthracene	ug/l	NS	0.002	5 U	na	5 U	5 U	5 U	5 U	na	5 U	5.4 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	7.8 U	5 U	5 U	5.2 U	na	5 U	5 U	5 U
Benzo(A)Pyrene Benzo(B)Fluoranthene	ug/l ug/l	0 NS	NS 0.002	5 U 5 U	na	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	na	5 U 5 U	5.4 U 5.4 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	7.8 U 7.8 U	5 U 5 U	5 U 5 U	5.2 U 5.2 U	na	5 U 5 U	5 U 5 U	5 U 5 U
Benzo(G,H,I)Perylene	ug/l	NS	NS	5 U	na	5 U	5 U	5 U	5 U	na	5 U	5.4 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	7.8 U	5 U	5 U	5.2 U	na	5 U	5 U	5 U
Benzo(K)Fluoranthene Benzyl Butyl Phthalate	ug/l ug/l	NS	0.002	5 U 5 U	na	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	na	5 U 5 U	5.4 U 5.4 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	7.8 U 7.8 U	5 U 5 U	5 U 5 U	5.2 U 5.2 U	na na	5 U 5 U	5 U 5 U	5 U 5 U
Biphenyl (Diphenyl)	ug/l	5	NS	5 U	na	5 U	5 U	5 U	5 U	na	5 U	5.4 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	7.8 U	5 U	5 U	5.2 U	na	5 U	5 U	5 U
Bis(2-Chloroethoxy) Methane Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	ug/l ug/l	5	NS NS	5 U 5 U	na	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	na	5 U 5 U	5.4 U 5.4 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	7.8 U 7.8 U	5 U 5 U	5 U 5 U	5.2 U 5.2 U	na na	5 U 5 U	5 U 5 U	5 U 5 U
Bis(2-Chloroisopropyl) Ether	ug/l	5	NS	5 UJ	na	5 UJ	5 UJ	5 UJ	5 U	na	5 U	5.4 U	5 U	5 U	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U	7.8 U	5 U	5 U	5.2 U	na	5 U	5 U	5 U
Bis(2-Ethylhexyl) Phthalate Caprolactam	ug/l ug/l	5 NS	NS	5 U 5 U	na	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	na	5 U 5 U	5.4 U 5.4 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	7.8 U 7.8 U	5 U 5 U	5 U 5 U	5.2 U 5.2 U	na	5 U 5 U	5 U 5 U	5 U 5 U
Carbazole	ug/l	NS	NS	5 U	na	5 U	5 U	5 U	5 U	na	5 U	5.4 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	7.8 U	5 U	5 U	5.2 U	na	5 U	5 U	5 U
Chrysene Dibenz(A,H)Anthracene	ug/l ug/l	NS	0.002 NS	5 U 5 U	na na	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	na na	5 U 5 U	5.4 U 5.4 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	7.8 U 7.8 U	5 U 5 U	5 U 5 U	5.2 U 5.2 U	na na	5 U 5 U	5 U 5 U	5 U 5 U
Dibenzofuran	ug/l	NS	NS	10 U	na	10 U	10 U	10 U	10 U	na	10 U	11 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	16 U	10 U	10 U	10 U	na	10 U	10 U	10 U
Diethyl Phthalate Dimethyl Phthalate	ug/l ug/l	NS	50 50	5 U 5 U	na na	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	na na	5 U 5 U	5.4 U 5.4 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	0.36 J 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	7.8 U 7.8 U	5 U 5 U	5 U 5 U	5.2 U 5.2 U	na na	5 U 5 U	5 U 5 U	5 U 5 U
Di-N-Butyl Phthalate	ug/l	50	NS	5 U	na	0.32 J	5 U	0.34 J	5 U	na	5 U	5.4 U	5 U	5 UJ	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U	7.8 U	5 U	5 U	5.2 U	na	5 UJ	5 UJ	5 UJ
Di-N-Octylphthalate Fluoranthene	ug/l ug/l	NS	50 50	5 U 5 U	na na	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	na na	5 U 5 U	5.4 U 5.4 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	7.8 U 7.8 U	5 U 5 U	5 U 5 U	5.2 U 5.2 U	na na	5 U 5 U	5 U 5 U	5 U 5 UJ
Fluorene	ug/l	NS	50	0.76 J	na	5 U	5 U	5 U	5 U	na	5 U	5.4 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	7.8 U	5 U	5 U	5.2 U	na	5 U	5 U	5 U
Hexachlorobenzene Hexachlorobutadiene	ug/l ug/l	0.04	NS	5 U 5 U	na na	5 U 5 UJ	5 U 5 UJ	5 U 5 UI	5 U 5 U	na na	5 U 5 U	5.4 U 5.4 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 UJ	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	7.8 U 7.8 U	5 U 5 U	5 U 5 U	5.2 U 5.2 U	na na	5 U 5 U	5 U 5 U	5 U 5 U
Hexachlorocyclopentadiene	ug/l	5	NS	5 U	na	5 U	5 U	5 U	5 U	na	5 U	5.4 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	7.8 U	5 U	5 U	5.2 U	na	5 U	5 U	5 U
Hexachloroethane Indeno(1,2,3-C,D)Pyrene	ug/l ug/l	5 NS	NS 0.002	5 U 5 U	na na	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	na na	5 U 5 U	5.4 U 5.4 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	7.8 U 7.8 U	5 U 5 U	5 U 5 U	5.2 U 5.2 U	na na	5 U 5 U	5 U 5 U	5 U 5 U
Isophorone	ug/1	NS	50	5 U	na	5 U	5 U	5 U	5 U	na	5 U	5.4 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	7.8 U	5 U	5 U	5.2 U	na	5 U	5 U	5 U
Naphthalene Nitrobenzene	ug/l ug/l	NS 0.4	10 NS	5 U 5 U	na	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	na	5 U 5 U	5.4 U 5.4 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	7.8 U 7.8 U	5 U 5 U	5 U 5 U	5.2 U 5.2 U	na na	5 U 5 U	5 U 5 U	5 U 5 U
N-Nitrosodi-N-Propylamine	ug/l	NS	NS	5 U	na	5 U	5 U	5 U	5 U	na	5 U	5.4 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	7.8 U	5 U	5 U	5.2 U	na	5 U	5 U	5 U
N-Nitrosodiphenylamine Pentachlorophenol	ug/1	NS 1	50 NS	5 U 10 U	na	5 U 10 U	5 U 10 U	5 U 10 U	5 U 10 U	na na	5 U 10 U	5.4 U	5 U 10 U	5 U 10 U	5 U 10 U	5 U 10 U	5 U 10 U	5 U 10 U	5 U 10 U	5 U 10 U	5 U 10 U	7.8 U 16 U	5 U 10 U	5 U 10 U	5.2 U 10 U	na	5 U 10 U	5 U 10 U	5 U 10 U
Phenanthrene	ug/l ug/l	I NS	50	10 U 5 U	na na	10 U 5 U	10 U 5 U	10 U	10 U 5 U	na	10 U 5 U	11 U 5.4 U	5 U	5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U	10 U 5 U	10 U	16 U 7.8 U	10 U 5 U	10 U 5 U	10 U 5.2 U	na na	5 U	10 U 5 U	10 U 5 U
Phenol	ug/1	1 NIC	NS 50	5 U	na	5 U	5 U	5 U	5 U	na	5 U	5.4 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	7.8 U	5 U	5 U	5.2 U	na	5 U	5 U	5 U
Pyrene	ug/l	NS	50	5 U	na	5 U	5 U	5 U	5 U	na	5 U	5.4 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	7.8 U	5 U	5 U	5.2 U	na	5 U	5 U	5 U

Notes and Abbreviations ng/L - nanograms per liter mg/L - milligrams per liter U - Compound not detected J - Estimated value N - Primary sample FD - Field duplicate sample na - Sample not analyzed for this parameter NS - No standard

Bold value indicates detected value NYSDEC TOGS111 - Standards listed are the New York State Department of Environmental Conservation (NYSDEC) Division Shade cell indiicates exceedance of NYSGA Standard or Guidance



Depth         14           Depth         14           NYDEC         CS111 GA           CANDARD         0.02           NS         0.2           0.003         0.00           0.025         0.01           1         0.0           NS         0.000           NS         0.000           NS         0.000           NS         0.001           NS         0.002           0.05         0.000           0.3         2           0.025         0.01           0.33         1.           0.0007         0.000           0.1         0.02           NS         4.           0.01         0.02           NS         0.00           NS         0.00           NS         0.00           NS         0.00	Y 14.5 0.2 U 0.02 U 0.015 U 0.015 U 0.017 0.002 U 0.002 U 77.7 0.004 U 0.004 U 0.001 U 2.2 0.01 U 12.4 1.5 0.0002 U 0.010 U 12.4 1.5 0.0002 U 0.010 U 12.4 1.5 0.0002 U 0.010 U 2.2 0.010 U 0.010 U 2.2 0.010 U 12.4 1.5 0.0002 U 0.005 U 0.010 U 0.02 U 0.005 U 0.02 U 0.002 U 0.004 U 0.001 U 2.2 0.001 U 12.4 1.5 0.0005 U 0.005 U 0.005 U 0.002 U 0.000 U 0.002 U 0.000 U 0.000 U 0.001 U 0.000 U 0.0000 U 0.000 U 0.0000 U 0.0000 U 0.0000 U 0.000 U 0.000 U 0.	Y 11.5 0.2 U 0.02 U 0.015 U 0.067 0.002 U 66.8 0.004 U 0.004 U 0.004 U 0.004 U 0.004 U 0.004 U 0.004 U 0.002 I 0.001 U 8.9 0.0028 0.0002 U 0.01 U 4.1 0.025 U 0.006 U	Y 11.5 0.28 0.02 U 0.015 U 0.008 0.002 U 0.002 U 0.004 U 0.004 U 0.004 U 0.004 U 0.004 U 0.0038 0.25 0.01 U 8.9 0.032 0.002 U	Y 135 0.2 U 0.02 U 0.015 U 0.002 U 0.002 U 114 0.004 U 0.004 U 0.01 U 2.4 0.01 U 46.7 2.1 0.002 U	Y 14.5 0.2 U 0.02 U 0.015 U 0.069 0.002 U 57.6 0.0011 J 0.004 U 0.19 0.05 U 0.01 U 8.5 0.038	Y 89.5 6.6 0.02 U 0.015 U 0.34 0.001 J 0.002 U 72.7 0.0041 0.0015 J 0.01 U 4.2 0.0078 J	Y 14.5 0.2 U 0.02 U 0.015 U 0.034 0.002 U 0.0058 80.3 0.004 U 0.0032 J 2.5 0.05 U	Y 45.5 0.2 U 0.02 U 0.015 U 0.002 U 0.002 U 84.9 0.004 U 0.004 U 0.004 U	Y 82.5 0.2 U 0.02 U 0.015 U 0.008 0.002 U 0.002 U 88.3 0.004 U 0.004 U	Y 15 0.2 U 0.02 U 0.015 U 0.15 0.002 U 0.002 U 91 0.004 U	Y 55 0.2 U 0.02 U 0.015 U 0.069 0.002 U 0.002 U 784	Y 77.5 34.4 0.02 U 0.011 J 0.23 0.0028 0.002 U	Y 37.5 0.2 U 0.02 U 0.015 U 0.064 0.002 U	Y 37.5 0.063 J 0.02 U 0.015 U 0.066
NS         0.2           0.003         0.01           0.025         0.01           1         0.7           NS         0.00           0.005         0.01           1         0.7           NS         0.00           NS         0.00           NS         0.00           NS         0.00           NS         0.00           0.2         0.01           0.3         2           0.025         0.01           0.025         0.00           0.1         0.01           0.05         0.00           0.05         0.00           0.05         0.00           0.05         0.00           NS         4.           0.05         0.00           NS         0.02           NS         0.02           NS         0.00           NS         0.00	0.02 U 0.015 U 0.17 0.002 U 7.7 0.004 U 0.01 U 2.2 0.01 U 12.4 1.5 0.0002 U 0.01 U 12.4 1.5 0.0002 U 0.01 U 2.2 0.01 U 12.4 1.5 0.0002 U 0.01 U 9.6 0.02 U	0.02 U 0.015 U 0.067 0.002 U 66.8 0.004 U 0.004 U 0.036 0.027 I 0.01 U 8.9 0.028 0.0022 U 0.01 U 4.1 0.025 U	0.02 U 0.015 U 0.068 0.002 U 65.6 0.004 U 0.004 U 0.004 U 0.038 0.25 0.01 U 8.9 0.032 0.002 U 0.002 U	0.02 U 0.015 U 0.71 0.002 U 0.002 U 114 0.004 U 0.004 U 0.004 U 0.01 U 2.4 0.01 U 46.7 2.1	0.02 U 0.015 U 0.069 0.002 U 57.6 0.001 J 0.004 U 0.19 0.05 U 0.01 U 8.5	0.02 U 0.015 U 0.34 0.001 J 0.002 U 72.7 0.0041 0.0015 J 0.01 U 4.2 0.0078 J	0.02 U 0.015 U 0.034 0.002 U 0.0058 80.3 0.004 U 0.0032 J 2.5	0.02 U 0.015 U 0.002 U 0.002 U 84.9 0.004 U 0.004 U	0.02 U 0.015 U 0.088 0.002 U 0.002 U 88.3 0.004 U	0.02 U 0.015 U 0.15 0.002 U 0.002 U 91 0.004 U	0.02 U 0.015 U 0.069 0.002 U 0.002 U	0.02 U 0.011 J 0.23 0.0028	0.02 U 0.015 U <b>0.064</b>	0.02 U 0.015 U
NS         0.2           0.003         0.02           0.025         0.01           1         0.7           NS         0.000           0.005         0.00           NS         77           0.05         0.00           NS         0.00           NS         0.00           0.05         0.00           0.3         2           0.025         0.01           0.33         1           0.007         0.000           0.1         0.02           0.05         0.00           NS         4.           0.01         0.02           NS         0.01           NS         0.00           NS         0.01           NS         0.01           NS         0.00           NS         0.00           NS         0.00	0.02 U 0.015 U 0.17 0.002 U 7.7 0.004 U 0.01 U 2.2 0.01 U 12.4 1.5 0.0002 U 0.01 U 12.4 1.5 0.0002 U 0.01 U 2.2 0.01 U 12.4 1.5 0.0002 U 0.01 U 9.6 0.02 U	0.02 U 0.015 U 0.067 0.002 U 66.8 0.004 U 0.004 U 0.036 0.027 I 0.01 U 8.9 0.028 0.0022 U 0.01 U 4.1 0.025 U	0.02 U 0.015 U 0.068 0.002 U 65.6 0.004 U 0.004 U 0.004 U 0.038 0.25 0.01 U 8.9 0.032 0.002 U 0.002 U	0.02 U 0.015 U 0.71 0.002 U 0.002 U 114 0.004 U 0.004 U 0.004 U 0.01 U 2.4 0.01 U 46.7 2.1	0.02 U 0.015 U 0.069 0.002 U 57.6 0.001 J 0.004 U 0.19 0.05 U 0.01 U 8.5	0.02 U 0.015 U 0.34 0.001 J 0.002 U 72.7 0.0041 0.0015 J 0.01 U 4.2 0.0078 J	0.02 U 0.015 U 0.034 0.002 U 0.0058 80.3 0.004 U 0.0032 J 2.5	0.02 U 0.015 U 0.002 U 0.002 U 84.9 0.004 U 0.004 U	0.02 U 0.015 U 0.088 0.002 U 0.002 U 88.3 0.004 U	0.02 U 0.015 U 0.15 0.002 U 0.002 U 91 0.004 U	0.02 U 0.015 U 0.069 0.002 U 0.002 U	0.02 U 0.011 J 0.23 0.0028	0.02 U 0.015 U <b>0.064</b>	0.02 U 0.015 U
0.003         0.02           0.025         0.01           1         0.7           NS         0.00           0.005         0.00           NS         77           0.005         0.00           NS         77           0.05         0.00           0.05         0.00           0.05         0.00           0.02         0.01           0.03         2.           0.02         0.01           0.025         0.01           0.007         0.000           0.1         0.01           0.05         0.00           NS         4.           0.01         0.02           NS         0.00           NS         0.00           NS         0.00           NS         0.00           NS         0.00           NS         0.00	0.02 U 0.015 U 0.17 0.002 U 7.7 0.004 U 0.01 U 2.2 0.01 U 12.4 1.5 0.0002 U 0.01 U 12.4 1.5 0.0002 U 0.01 U 2.2 0.01 U 12.4 1.5 0.0002 U 0.01 U 9.6 0.02 U	0.02 U 0.015 U 0.067 0.002 U 66.8 0.004 U 0.004 U 0.036 0.027 I 0.01 U 8.9 0.028 0.0022 U 0.01 U 4.1 0.025 U	0.02 U 0.015 U 0.068 0.002 U 65.6 0.004 U 0.004 U 0.004 U 0.038 0.25 0.01 U 8.9 0.032 0.002 U 0.002 U	0.02 U 0.015 U 0.71 0.002 U 0.002 U 114 0.004 U 0.004 U 0.004 U 0.01 U 2.4 0.01 U 46.7 2.1	0.02 U 0.015 U 0.069 0.002 U 57.6 0.001 J 0.004 U 0.19 0.05 U 0.01 U 8.5	0.02 U 0.015 U 0.34 0.001 J 0.002 U 72.7 0.0041 0.0015 J 0.01 U 4.2 0.0078 J	0.02 U 0.015 U 0.034 0.002 U 0.0058 80.3 0.004 U 0.0032 J 2.5	0.02 U 0.015 U 0.002 U 0.002 U 84.9 0.004 U 0.004 U	0.02 U 0.015 U 0.088 0.002 U 0.002 U 88.3 0.004 U	0.02 U 0.015 U 0.15 0.002 U 0.002 U 91 0.004 U	0.02 U 0.015 U 0.069 0.002 U 0.002 U	0.02 U 0.011 J 0.23 0.0028	0.02 U 0.015 U <b>0.064</b>	0.02 U 0.015 U
0.025         0.01           1         0.1           NS         0.00           0.005         0.00           NS         77           0.05         0.00           NS         0.00           NS         0.00           0.3         2           0.025         0.01           0.3         12           0.3         1           0.0007         0.000           0.1         0.02           0.05         0.00           NS         4.           0.01         0.02           0.05         0.00           20         92           NS         0.02           NS         0.02           NS         0.02	0.015 U 0.17 0.002 U 0.002 U 77.7 0.004 U 0.004 U 0.01 U 2.2 0.01 U 12.4 1.5 0.0002 U 0.01 U 4.1 0.025 U 0.006 U 92.6 0.02 U	0.015 U 0.067 0.002 U 0.002 U 66.8 0.004 U 0.004 U 0.036 0.027 I 0.01 U 8.9 0.028 0.0022 U 0.01 U 4.1 0.025 U	0.02 U 0.015 U 0.068 0.002 U 65.6 0.004 U 0.004 U 0.004 U 0.038 0.25 0.01 U 8.9 0.032 0.002 U 0.002 U	0.015 U 0.71 0.002 U 114 0.004 U 0.004 U 0.01 U 2.4 0.01 U 46.7 2.1	0.015 U 0.069 0.002 U 57.6 0.0011 I 0.004 U 0.19 0.05 U 0.01 U 8.5	0.02 U 0.015 U 0.34 0.001 J 0.002 U 72.7 0.0041 0.0015 J 0.01 U 4.2 0.0078 J	0.015 U 0.034 0.002 U 0.0058 80.3 0.004 U 0.0032 J 2.5	0.015 U 0.1 0.002 U 0.002 U 84.9 0.004 U 0.004 U	0.015 U 0.088 0.002 U 0.002 U 88.3 0.004 U	0.015 U 0.15 0.002 U 0.002 U 91 0.004 U	0.015 U 0.069 0.002 U 0.002 U	0.02 U 0.011 J 0.23 0.0028	0.015 U <b>0.064</b>	0.02 U 0.015 U
1         0.:           NS         0.00           0.005         0.00           NS         77           0.05         0.00           NS         0.00           NS         0.00           NS         0.00           NS         0.00           0.2         0.01           0.3         2.           0.025         0.01           0.03         1.           0.0007         0.000           0.1         0.02           0.05         0.00           20         92           NS         0.01           NS         0.01           NS         0.00           NS         0.00	0.17 0.002 U 0.002 U 77.7 0.004 U 0.004 U 0.004 U 2.2 0.01 U 12.4 1.5 0.0002 U 0.01 U 4.1 0.025 U 0.006 U 92.6 0.02 U	0.067 0.002 U 66.8 0.004 U 0.036 0.027 I 0.01 U 8.9 0.028 0.0022 U 0.01 U 4.1 0.025 U	0.068 0.002 U 65.6 0.004 U 0.004 U 0.038 0.25 0.01 U 8.9 0.032 0.0002 U 0.01 U	0.71 0.002 U 0.002 U 114 0.004 U 0.004 U 0.01 U 2.4 0.01 U 46.7 2.1	0.069 0.002 U 57.6 0.0011 J 0.004 U 0.19 0.05 U 0.01 U 8.5	0.34 0.001 J 0.002 U 72.7 0.0041 0.0015 J 0.01 U 4.2 0.0078 J	0.034 0.002 U 0.0058 80.3 0.004 U 0.0032 J 2.5	0.1 0.002 U 0.002 U 84.9 0.004 U 0.004 U	0.088 0.002 U 0.002 U 88.3 0.004 U	0.15 0.002 U 0.002 U 91 0.004 U	0.069 0.002 U 0.002 U	0.23 0.0028	0.064	
NS         0.00           0.005         0.00           NS         77           0.05         0.00           NS         77           0.01         0.00           NS         0.00           NS         0.00           0.2         0.01           0.3         2           0.025         0.01           0.03         1.           0.0007         0.000           0.1         0.02           NS         4.           0.01         0.02           NS         0.00           NS         0.00           NS         0.00           NS         0.00           NS         0.00	0.002 U 0.002 U 77.7 0.004 U 0.004 U 0.01 U 2.2 0.01 U 12.4 1.5 0.0002 U 0.01 U 4.1 0.025 U 0.006 U 92.6 0.02 U	0.002 U 0.002 U 66.8 0.004 U 0.004 U 0.036 0.027 I 0.01 U 8.9 0.028 0.0022 U 0.01 U 4.1 0.025 U	0.002 U 0.002 U 65.6 0.004 U 0.004 U 0.038 0.25 0.01 U 8.9 0.032 0.002 U 0.002 U 0.01 U	0.002 U 0.002 U <b>114</b> 0.004 U 0.004 U 0.01 U <b>2.4</b> 0.01 U <b>46.7</b> <b>2.1</b>	0.002 U 0.002 U 57.6 0.0011 J 0.004 U 0.19 0.05 U 0.01 U 8.5	0.001 J 0.002 U 72.7 0.0041 0.0015 J 0.01 U 4.2 0.0078 J	0.002 U 0.0058 80.3 0.004 U 0.0032 J 2.5	0.002 U 0.002 U <b>84.9</b> 0.004 U 0.004 U	0.002 U 0.002 U 88.3 0.004 U	0.002 U 0.002 U <b>91</b> 0.004 U	0.002 U 0.002 U	0.0028		0.066
0.005         0.00           NS         77           0.05         0.00           NS         0.02           0.02         0.01           0.03         2           0.04         0.02           0.05         0.01           0.025         0.01           0.03         1           0.007         0.000           0.01         0.001           NS         4           0.01         0.02           NS         0.00           NS         0.00           NS         0.00           NS         0.00           NS         0.00           NS         0.00	0.002 U 77.7 0.004 U 0.004 U 0.01 U 2.2 0.01 U 12.4 1.5 0.0002 U 0.01 U 4.1 0.025 U 0.006 U 92.6 0.02 U	0.002 U 66.8 0.004 U 0.004 U 0.036 0.027 I 0.01 U 8.9 0.028 0.0002 U 0.01 U 4.1 0.025 U	0.002 U 65.6 0.004 U 0.004 U 0.038 0.25 0.01 U 8.9 0.032 0.002 U 0.002 U 0.01 U	0.002 U 114 0.004 U 0.004 U 0.01 U 2.4 0.01 U 46.7 2.1	0.002 U 57.6 0.0011 J 0.004 U 0.19 0.05 U 0.01 U 8.5	0.002 U 72.7 0.0041 0.0015 J 0.01 U 4.2 0.0078 J	0.0058 80.3 0.004 U 0.0032 J 2.5	0.002 U <b>84.9</b> 0.004 U 0.004 U	0.002 U 88.3 0.004 U	0.002 U 91 0.004 U	0.002 U		0.002 0	0.002 U
NS         77           0.05         0.00           NS         0.00           0.2         0.01           0.3         2           0.025         0.01           0.3         12           0.0007         0.000           0.1         0.01           0.05         0.00           0.05         0.00           0.05         0.00           20         92           NS         0.02           NS         0.02           NS         0.02           NS         0.02           NS         0.02	77.7           0.004 U           0.01 U           2.2           0.01 U           1.5           0.002 U           0.01 U           4.1           0.025 U           0.006 U           92.6           0.02 U	66.8 0.004 U 0.004 U 0.036 0.027 I 0.01 U 8.9 0.028 0.0022 U 0.01 U 4.1 0.025 U	65.6 0.004 U 0.004 U 0.038 0.25 0.01 U 8.9 0.032 0.0002 U 0.0002 U	114 0.004 U 0.004 U 0.01 U 2.4 0.01 U 46.7 2.1	57.6 0.0011 J 0.004 U 0.19 0.05 U 0.01 U 8.5	72.7 0.0041 0.0015 J 0.01 U 4.2 0.0078 J	80.3 0.004 U 0.0032 J 2.5	84.9 0.004 U 0.004 U	<b>88.3</b> 0.004 U	<b>91</b> 0.004 U			0.0038	0.002 0
NS         0.00           0.2         0.01           0.3         2.           0.025         0.01           12         1.           0.3         1.           0.0007         0.000           0.1         0.01           0.05         0.00           0.01         0.02           0.05         0.00           20         92           NS         0.01           NS         0.00           NS         0.00           NS         0.00	0.004 U 0.01 U 2.2 0.01 U 12.4 1.5 0.0002 U 0.01 U 4.1 0.025 U 0.006 U 92.6 0.02 U	0.004 U 0.036 0.027 I 0.01 U 8.9 0.028 0.0002 U 0.01 U 4.1 0.025 U	0.004 U 0.038 0.25 0.01 U 8.9 0.032 0.0002 U 0.01 U	0.004 U 0.01 U 2.4 0.01 U 46.7 2.1	0.004 U 0.19 0.05 U 0.01 U 8.5	0.0015 J 0.01 U 4.2 0.0078 J	0.0032 J 2.5	0.004 U				83.9	94.7	97.4
0.2         0.01           0.3         2           0.025         0.01           12         0.3           0.0007         0.000           0.1         0.01           0.05         0.00           0.01         0.02           0.05         0.000           20         92           NS         0.02           NS         0.03           NS         0.03	0.01 U 2.2 0.01 U 12.4 1.5 0.0002 U 0.01 U 4.1 0.025 U 0.006 U 92.6 0.02 U	0.036 0.027 I 0.01 U 8.9 0.028 0.0002 U 0.01 U 4.1 0.025 U	0.038 0.25 0.01 U 8.9 0.032 0.0002 U 0.01 U	0.01 U 2.4 0.01 U 46.7 2.1	0.19 0.05 U 0.01 U 8.5	0.01 U 4.2 0.0078 J	2.5		0.004 U		0.004 U	0.02	0.004 U	0.004 U
0.3         2.           0.025         0.07           12         12           0.0007         0.000           0.1         0.07           0.05         0.00           0.1         0.02           0.05         0.00           0.05         0.00           20         92           NS         0.02           NS         0.02           NS         0.02           NS         0.02           NS         0.02	2.2 0.01 U 12.4 1.5 0.0002 U 0.01 U 4.1 0.025 U 0.006 U 92.6 0.02 U	0.027 I 0.01 U 8.9 0.0028 0.0002 U 0.01 U 4.1 0.025 U	0.25 0.01 U 8.9 0.032 0.0002 U 0.01 U	2.4 0.01 U 46.7 2.1	0.05 U 0.01 U 8.5	4.2 0.0078 J			0.003 I	0.00074 J 0.01 U	0.004 U 0.01 U	0.0058 0.038	0.0011 J 0.025	0.0012 J 0.026
12           0.3         1.           0.0007         0.000           0.1         0.01           NS         4.           0.01         0.02           0.05         0.00           20         92           NS         0.01           NS         0.00           NS         0.00           NS         0.00	12.4 1.5 0.0002 U 0.01 U 4.1 0.025 U 0.006 U 92.6 0.02 U	8.9 0.028 0.0002 U 0.01 U 4.1 0.025 U	8.9 0.032 0.0002 U 0.01 U	46.7 2.1	8.5			0.01 U	0.16	1.1	0.01 U	22.4	0.13	0.020
0.3         1.           0.0007         0.000           0.1         0.01           NS         4.           0.01         0.02           0.05         0.00           20         92           NS         0.01           NS         0.00           NS         0.01           0.05         0.000           20         92           NS         0.000           NS         0.000	1.5 0.0002 U 0.01 U 4.1 0.025 U 0.006 U 92.6 0.02 U	0.028 0.0002 U 0.01 U 4.1 0.025 U	0.032 0.0002 U 0.01 U	2.1			0.0048 J	0.01 U	0.003 J	0.01 U	0.01 U	0.052	0.01 U	0.01 U
0.0007         0.000           0.1         0.01           NS         4.           0.01         0.02           0.05         0.00           20         92           NS         0.02           NS         0.02           NS         0.02           NS         0.02	0.0002 U 0.01 U 4.1 0.025 U 0.006 U 92.6 0.02 U	0.0002 U 0.01 U 4.1 0.025 U	0.0002 U 0.01 U			17.4	13.1	18.3	17.3	14.1 U	17.5	23.7	17.4 U	17.9 U
0.1         0.01           NS         4.           0.01         0.02           0.05         0.00           20         92           NS         0.01           NS         0.00           NS         0.00           NS         0.00           NS         0.00	0.01 U 4.1 0.025 U 0.006 U 92.6 0.02 U	0.01 U 4.1 0.025 U	0.01 U		0.038 0.0002 U	0.61 0.0002 U	0.55 0.0002 U	0.54 0.0002 U	0.76 0.0002 U	0.95 J 0.0002 U	0.71 0.0002 U	1.1 0.0002 U	0.71 J 0.0002 U	0.73 J 0.0002 U
NS         4.           0.01         0.02           0.05         0.00           20         92           NS         0.00           NS         0.00           NS         0.00           NS         0.00	<b>4.1</b> 0.025 U 0.006 U <b>92.6</b> 0.02 U	<b>4.1</b> 0.025 U		0.01 U	0.0063 J	0.0002 U	0.033	0.0002 U 0.01 U	0.0002 U 0.01 U	0.01 U	0.0014 J	0.002 0	0.0065 J	0.0002 C
0.05         0.00           20         92           NS         0.00           NS         0.00           NS         0.00           NS         0.00	0.006 U 92.6 0.02 U		4.1	26.6	4	2.5	5.8	2.4	4.2	4.4 J	1.5	7.4	4.1 J	4.2 J
20         92           NS         0.02           NS         0.00           NS         0.00           NS         0.00	<b>92.6</b> 0.02 U	0.006 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
NS 0.02 NS 0.00 NS 0.01	0.02 U	133	0.006 U 133	0.006 U 362	0.006 U	0.006 U 57.6	0.006 U	0.006 U	0.006 U 96.4	0.006 U 64.4 J	0.006 U 51.2	0.006 U 102	0.006 U 97.4 I	0.006 U 99.6 J
NS 0.00 NS 0.01		133 0.02 U	133 0.02 U	362 0.02 U	128 0.02 U	57.6 0.02 U	148 0.02 U	64.2 0.02 U	96.4 0.02 U	64.4 J 0.02 U	51.2 0.02 U	102 0.02 U	97.4   0.02 U	99.6 0.02 U
		0.005 U	0.005 U	0.005 U	0.005 U	0.0037 J	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.018	0.005 U	0.005 U
0.2 0.03	0.01 U	0.01 U	0.01 U	0.01 U	0.024 U	0.017 U	0.14	0.01 U	0.01 U	0.01 U	0.01 U	0.073	0.017 U	0.018 U
0.2 0.03					-		-							-
	0.01 U	0.0059 J	0.005 J	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UJ	0.0075 J	0.01 U	0.01 U	0.01 U	0.007 J
NS 0.05	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.052 U	0.05 U	0.05 U	0.05 U	0.01 U 0.05 U 0.05 U
														0.05 U
0.04 0.05	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.052 U	0.05 U	0.05 U	0.05 U	0.05 U
	0.05 U					0.05 U						0.05 U		0.05 U
														0.05 U 0.05 U
	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.052 U	0.05 U	0.05 U	0.05 U	0.05 U
NS 0.05	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.052 U	0.05 U	0.05 U	0.05 U	0.05 U
0 0.05	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.052 U	0.05 U	0.05 U	0.05 U	0.05 U
							0.05 U 0.05 U		0.05 U	0.052 U	0.0511	0.05 U		
5 0.05	0.05 U	0.05.11	0.05 0		0.05 U				0.05.11	0.052.11		0.05.11	0.05 U	0.05 U
5 0.05 5 0.05	0.05 U 0.05 U 0.05 U	0.05 U 0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	0.052 U 0.052 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U 0.05 U	
5         0.05           5         0.05           0.05         0.05	0.05 U		0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U					0.05 U		0.05 U	0.05 U 0.05 U
5         0.09           5         0.09           0.05         0.09           0.04         0.09           0.03         0.09	0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U	0.052 U 0.052 U 0.052 U	0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U
5         0.00           5         0.03           0.05         0.03           0.04         0.03           0.03         0.03           35         0.03	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U	0.052 U 0.052 U 0.052 U 0.052 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U
5         0.03           5         0.05           0.05         0.03           0.04         0.03           35         0.00           0.3         0.03	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.052 U 0.052 U 0.052 U	0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U
5         0.00           5         0.05         0.00           0.05         0.00         0.00           0.03         0.00         35         0.00           0.3         0.00         0.2         0.00	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U	0.052 U 0.052 U 0.052 U 0.052 U 0.052 U 0.052 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U
5         0.03           5         0.05           0.05         0.03           0.03         0.03           35         0.03           0.2         0.03           0.2         0.03           0.2         0.05           0.2         0.05	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.5 U 0.5 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.5 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.5 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.5 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.5 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.5 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.5 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.5 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.5 U 0.5 U	0.052 U 0.052 U 0.052 U 0.052 U 0.052 U 0.052 U 0.052 U 0.052 U 0.52 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.5 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U
5         0.03           5         0.05           0.05         0.03           0.03         0.03           35         0.03           0.2         0.03           0.2         0.03           0.2         0.05           0.2         0.05	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.052 U 0.052 U 0.052 U 0.052 U 0.052 U 0.052 U 0.052 U 0.052 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U
5         0.03           5         0.05           0.05         0.01           0.03         0.02           35         0.03           0.2         0.03           0.2         0.03           0.2         0.03           0.5         0.05           NS         0.05	0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.5 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.5 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.5 U 0.5 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.5 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.5 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.5 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.5 U 0.05 U	0.052 U 0.052 U 0.052 U 0.052 U 0.052 U 0.052 U 0.052 U 0.052 U 0.52 U 0.52 U 0.052 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.5 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.5 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.5 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U
5         0.03           5         0.05           0.05         0.03           0.03         0.03           0.35         0.03           0.3         0.03           0.2         0.03           0.2         0.03           0.06         0.5           NS         0.03	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.5 U 0.05 U 0.5 U 0.5 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.5 U 0.5 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.5 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.5 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.5 U 0.05 U 0.5 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.5 U 0.5 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.5 U 0.05 U 0.5 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.5 U 0.5 U	0.052 U 0.052 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.5 U 0.5 U 0.5 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.5 U 0.5 U 0.5 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.5 U 0.5 U 0.5 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U
5         0.03           5         0.03           0.05         0.03           0.03         0.03           0.3         0.03           0.3         0.03           0.2         0.03           0.2         0.03           0.06         0.5           NS         0.03           0.09         0.5           0.09         0.5	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.5 U 0.5 U 0.5 U 0.5 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.5 U 0.05 U 0.5 U 0.5 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.5 U 0.5 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.5 U 0.5 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.5 U 0.5 U 0.5 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.5 U 0.05 U 0.5 U 0.5 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.5 U 0.5 U 0.5 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U	0.052 U 0.052 U 0.052 U 0.052 U 0.052 U 0.052 U 0.052 U 0.52 U 0.52 U 0.52 U 0.55 U 0.55 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.5 U 0.5 U 0.5 U 0.5 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.5 U 0.5 U 0.5 U 0.5 U	0.05 U 0.05 U 0.5 U 0.5 U	0.05 U 0.05 U
5         0.03           5         0.05           0.05         0.03           0.03         0.03           35         0.03           0.2         0.03           0.2         0.03           0.06         0.5           NS         0.06           0.09         0.5           0.09         0.5           0.09         0.5	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.5 U 0.05 U 0.5 U 0.5 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.5 U 0.5 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.5 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.5 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.5 U 0.05 U 0.5 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.5 U 0.5 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.5 U 0.05 U 0.5 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.5 U 0.5 U	0.052 U 0.052 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.5 U 0.5 U 0.5 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.5 U 0.5 U 0.5 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.5 U 0.5 U 0.5 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U
5         0.03           5         0.05           0.05         0.03           0.03         0.03           0.3         0.03           0.2         0.03           0.2         0.03           0.06         0.5           NS         0.06           0.09         0.5           0.09         0.5           0.09         0.5           0.09         0.5           0.09         0.5           0.09         0.5           0.09         0.5	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.5 U 0.5 U 0.5 U 0.5 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U	0.052 U 0.052 U 0.55 U 0.5 U 0.5 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.5 U 0.5 U 0.5 U 0.5 U
0.01 NS 0.04 NS 0.04 0.004 NS		0.0092 J 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 U         0.05 U           0.0092 J         0.05 U           0.05 U         0.05 U	0.05 U         0.05 U         0.05 U           0.0092 J         0.05 U         0.05 U           0.05 U         0.05 U         0.05 U	0.05 U         0.05 U         0.05 U         0.05 U           0.0092 J         0.05 U         0.05 U         0.05 U           0.05 U         0.05 U         0.05 U         0.05 U	0.05 U         0.05 U         0.05 U         0.05 U         0.05 U           0.0092 J         0.05 U         0.05 U         0.05 U         0.05 U           0.05 U         0.05 U         0.05 U         0.05 U         0.05 U           0.05 U         0.05 U         0.05 U         0.05 U         0.05 U           0.05 U         0.05 U         0.05 U         0.05 U         0.05 U           0.05 U         0.05 U         0.05 U         0.05 U         0.05 U           0.05 U         0.05 U         0.05 U         0.05 U         0.05 U           0.05 U         0.05 U         0.05 U         0.05 U         0.05 U           0.05 U         0.05 U         0.05 U         0.05 U         0.05 U           0.05 U         0.05 U         0.05 U         0.05 U         0.05 U           0.05 U         0.05 U         0.05 U         0.05 U         0.05 U           0.05 U         0.05 U         0.05 U         0.05 U         0.05 U           0.05 U         0.05 U         0.05 U         0.05 U         0.05 U           0.05 U         0.05 U         0.05 U         0.05 U         0.05 U           0.05 U         0.05 U         0.05 U         0.0	0.05 U         0.05 U         0.05 U         0.05 U         0.05 U         0.05 U           0.0092 J         0.05 U         0.05 U         0.05 U         0.05 U         0.05 U         0.05 U           0.05 U         0.05 U         0.05 U         0.05 U         0.05 U         0.05 U         0.05 U           0.05 U         0.05 U         0.05 U         0.05 U         0.05 U         0.05 U         0.05 U           0.05 U         0.05 U         0.05 U         0.05 U         0.05 U         0.05 U         0.05 U           0.05 U         0.05 U         0.05 U         0.05 U         0.05 U         0.05 U         0.05 U           0.05 U         0.05 U         0.05 U         0.05 U         0.05 U         0.05 U         0.05 U           0.05 U         0.05 U         0.05 U         0.05 U         0.05 U         0.05 U         0.05 U           0.05 U         0.05 U         0.05 U         0.05 U         0.05 U         0.05 U         0.05 U           0.05 U         0.05 U         0.05 U         0.05 U         0.05 U         0.05 U         0.05 U           0.05 U         0.05 U         0.05 U         0.05 U         0.05 U         0.05 U         0.05 U	0.05 U         0.05 U<	0.05 U         0.05 U<	0.05 U         0.05 U<	0.05 U         0.05 U<	0.05 U         0.05 U<	0.05 U         0.05 U<	0.05 U         0.05 U<



Shade cell indiicates exceedance of NYSGA Standard or Guidance NYSDEC TOGS111 - Standards listed are the New York State Department of Environmental Conservation (NYSDEC) Division of Water Technical

				TO MUL OOM	TO 1 111 000 1	FG 1 (141 000 1	FC 1 (14) 000 C	FC 1 (11 000 1	FC 1 544 000D	FC 1 (14) 005 1		775 1 M 1 0 0 5 C	FF 1 (14) 00F 1		TO 1 611 007 0	EC MUL COOD	F5 1 644 000 B
			Location ID	FS-MW-001A FS-MW-001A (14.5)-	FS-MW-002A	FS-MW-002A FS-MW-002A (11.5)-	FS-MW-002C FS-MW-002C (135)-	FS-MW-003A FS-MW-003A (14.5)-	FS-MW-003B FS-MW-003B (89.5)-	FS-MW-005A FS-MW-005A (14.5)-	FS-MW-005B FS-MW-005B (45.5)-	FS-MW-005C FS-MW-005C (82.5)-	FS-MW-007A FS-MW-007A	FS-MW-007B FS-MW-007B (55)-	FS-MW-007C FS-MW-007C (77.5)-	FS-MW-008B	FS-MW-008B FS-MW-008B (37.5)-
			Sample ID	07252019	DUP-07242019	07242019	07242019	07242019	07252019	07242019	07242019	07242019	(15)(07232019)	07242019	07242019	DUP-07232019	07232019
			Sample Date	7/25/2019	7/24/2019	7/24/2019	7/24/2019	7/24/2019	7/25/2019	7/24/2019	7/24/2019	7/24/2019	7/23/2019	7/24/2019	7/24/2019	7/23/2019	7/23/2019
			Sample Type	N	FD	N	N	N	N	N	N	N	N	N	N	FD	N
		,	Validated - Y/N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Υ	Y	Y	Y	Y
			Depth	14.5	11.5	11.5	135	14.5	89.5	14.5	45.5	82.5	15	55	77.5	37.5	37.5
		NYDEC	NYDEC														
		TOGS111 GA	TOGS111 GA														
Analyte	Unit	GUIDANCE	STANDARD														
Volatile Organic Compounds (VOCs) by USEPA M	lethod 8260	C			-	-		-	-		-			-			-
1,1,1-Trichloroethane (TCA)	ug/l	NS	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	12	35	1 U	1.5	4.8	390	360
1,1,2,2-Tetrachloroethane	ug/l	NS	5	1 U	1 U	1 U	1 U	1 U	1U	1 U	5 U	10 U	1 U	1 U	1 U	20 U	20 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/l	NS	5	1 U	1 U	1 U	1 U	1 U	1U	1 U	5 U	10 U	1 U	1 U	1 U	20 U	20 U
1,1,2-Trichloroethane 1,1-Dichloroethane	ug/l ug/l	NS NS	5	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U	5 U 85	10 U	1 U 1 U	1 U 20	1 U 76	20 U	20 U
1,1-Dichloroethane	ug/1 ug/1	NS	5	10	10	10	10	10	10	10	28	160 31	10	6.9	76	<u>190</u> 52	170 45
1,2.4-Trichlorobenzene	ug/1 ug/1	NS	5	1 U	1 U	1 U	10	10	10	10	5 U	10 U	1U	1 U	1.1 1 U	20 U	20 U
1,2,4-Trimethylbenzene	ug/1	NS	5	10	10	10	10	10	10	10	5 U	10 U	1U	10	1 U	20 U	20 U
1,2-Dibromo-3-Chloropropane	ug/1	NS	0.04	1 U	1 U	10	1 U	10	1 U	1 U	5 U	10 U	10	10	1 U	20 U	20 U
1,2-Dibromoethane (Ethylene Dibromide)	ug/l	NS	0.0006	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	10 U	1 U	1 U	1 U	20 U	20 U
1,2-Dichlorobenzene	ug/l	NS	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	10 U	1 U	1 U	1 U	20 U	20 U
1,2-Dichloroethane	ug/l	NS	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	10 U	1 U	1 U	1 U	20 U	20 U
1,2-Dichloropropane	ug/l	NS	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	10 U	1 U	1 U	1 U	20 U	20 U
1,3,5-Trimethylbenzene (Mesitylene)	ug/1	NS	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	10 U	1U	1 U	1 U	20 U	20 U
1,3-Dichlorobenzene	ug/1	NS	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	10 U	1 U	1 U	1 U	20 U	20 U
1,4-Dichlorobenzene	ug/l	NS 50	3 NS	1 U 5 U	1 U 5 U	1 U 5 U	1 U 5 U	1 U 5 U	1 U 5 U	1 U 5 U	5 U 25 U	10 U 50 U	1 U 5 U	1 U 5 U	1 U 5 U	20 U 100 U	20 U 100 U
2-Hexanone Acetone	ug/l ug/l	50	NS NS	10 U	5 U 10 U	10 U	10 U	10 U	10 U	10 U	25 U 50 U	100 U	10 U	10 U	10 U	200 U	200 U
Benzene	ug/1 ug/1	NS	1	100	10 U	100 1 U	1 U	100 1 U	100	10 U	50 U	100 U	100	10 U	10 U	200 U	200 U
Bromodichloromethane	ug/1	50	NS	1 U	1 U	1 U	10	1 U	1 U	10	5 U	10 U	1U	1 U	1 U	20 U	20 U
Bromoform	ug/1	50	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	10 U	1 UJ	1U	1 U	20 UJ	20 UJ
Bromomethane	ug/1	NS	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	10 U	1U	1 U	1 U	20 U	20 U
Carbon Disulfide	ug/l	60	NS	1 U	1 U	1 U	0.37 J	1 U	1 U	1 U	5 U	10 U	1 U	1 U	0.25 J	20 U	20 U
Carbon Tetrachloride	ug/l	NS	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	10 U	1 U	1 U	1 U	20 U	20 U
Chlorobenzene	ug/l	NS	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	10 U	1 U	1 U	1 U	20 U	20 U
Chloroethane	ug/l	NS	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	10 U	1 U	1 U	1 U	20 U	20 U
Chloroform	ug/1	NS	7	1 U	0.74 J	0.76 J	1 U	0.97 J	1U	1 U	5 U	10 U	1 U	1 U	1 U	20 U	20 U
Chloromethane	ug/l	NS	5	1 U	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U	1U 1U	1 U 1 U	5 U 5 U	10 U 10 U	1U 1U	1 U 1.3	1 U 1 U	20 U	20 U
Cis-1,2-Dichloroethylene Cis-1,3-Dichloropropene	ug/l ug/l	NS NS	0.4	1 U 1 U	10	1 U	10	1 U	10	10	5 U	10 U	10	1.5 1 U	1 U	24 20 U	21 20 U
Cyclohexane	ug/1 ug/1	NS	NS	10	10	10	10	10	10	10	5 U	10 U	0.78 [	10	10	20 U	20 U
Cymene	ug/1	NS	5	1 U	1 U	1 U	10	10	10	10	5 U	10 U	1 U	1 U	1 U	20 U	20 U
Dibromochloromethane	ug/1	50	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	10 U	1 U	1U	1 U	20 U	20 U
Dichlorodifluoromethane	ug/1	NS	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	10 U	1 U	1 U	1 U	20 U	20 U
Ethylbenzene	ug/l	NS	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	10 U	1 U	1 U	1 U	20 U	20 U
Isopropylbenzene (Cumene)	ug/l	NS	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	10 U	1 U	1 U	1 U	20 U	20 U
Methyl Acetate	ug/l	NS	NS	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	13 U	25 U	2.5 U	2.5 U	2.5 U	50 U	50 U
Methyl Ethyl Ketone (2-Butanone)	ug/l	50	NS	10 U	10 U	10 U	10 U	10 U	3.5 J	10 U	50 U	100 U	10 U	10 U	10 U	200 U	200 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	ug/1	NS	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	25 U	50 U	5 U	5 U	5 U	100 U	100 U
Methylcyclohexane	ug/l	NS	NS	1U	1 U	1 U	1 U	1 U	1U	1 U	5 U	10 U	0.75 J	1 U	1 U	20 U	20 U
Methylene Chloride Naphthalene	ug/l ug/l	NS 10	5 NS	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U	5 U 5 U	10 U 10 U	1 U 1 U	1 U 1 U	1 U 1 U	20 U 20 U	20 U 20 U
N-Butylbenzene	ug/1 ug/1	NS	5	10	10	10	10	10	10	10	5 U	10 U	10	10	10	20 U	20 U
N-Propylbenzene	ug/1 ug/1	NS	50	10	10	10	10	10	10	10	5 U	10 U	10	10	10	20 U	20 U
Sec-Butylbenzene	ug/1	NS	5	1	1 U	1 U	10	10	10	10	5 U	10 U	1U	1 U	1 U	20 U	20 U
Styrene	ug/1	NS	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	10 U	1 U	1 U	1 U	20 U	20 U
T-Butylbenzene	ug/l	NS	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	10 U	1 U	1 U	1 U	20 U	20 U
Tert-Butyl Methyl Ether	ug/l	10	NS	0.22 J	1 U	1 U	1 U	1 U	0.19 J	1 U	5 U	10 U	1 U	0.18 J	1 U	20 U	20 U
Tetrachloroethylene (PCE)	ug/l	NS	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	10 U	1 U	1 U	1 U	20 U	20 U
Toluene	ug/l	NS	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	10 U	1 U	1 U	1 U	20 U	20 U
Trans-1,2-Dichloroethene	ug/l	NS	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	10 U	1 U	1 U	1 U	20 U	20 U
Trans-1,3-Dichloropropene	ug/l	NS	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	10 U	1 U	1 U	1 U	20 U	20 U
Trichloroethylene (TCE)	ug/1	NS	5	1 U	1 U	1 U	1 U	1 U	1 U	0.47 J	320	380	1 U	56	5.1	1300	1300
Trichlorofluoromethane	ug/l	NS	5	1 U 1 U	1 U 1 U	1 U 1 U	1 U	1 U	1 U	1 U	5 U	10 U	1 U	1 U	1 U	20 U 20 U	20 U 20 U
Vinyl Chloride Xylenes	ug/1	NS NS		2 U	2 U	1 U 2 U	1 U 2 U	1 U 2 U	1 U	1 U 2 U	5 U 10 U	10 U	1U	1 U	1 U	20 U 40 U	20 U 40 U
Ayteries	ug/l	N5	5	2 U	20	2 U	20	2 U	2 U	2 U	10 U	20 U	2 U	2 U	2 U	40 U	40 U

Notes and Abbreviations ng/L - nanograms per liter mg/L - milligrams per liter U - Compound not detected J - Estimated value N - Primary sample FD - Field duplicate sample na - Sample not analyzed for this parameter NS - No standard Bold value indicates detected value



Shade cell indiicates exceedance of NYSGA Standard or Guidance NYSDEC TOGS111 - Standards listed are the New York State Department of Environmental Conservation (NYSDEC) Division of Water Technical

			Lenstine ID	EC MIALOOI A	EC MIN 002 A	EC 1414/0024	EC MINI 002C	EC MAN 002 A	EC MUM 002B		EC MAN OUED	TC MIN 005C	EC 1414/0074	DC 1/04/ 007P	EC MMI 007C	EC MAN 000D	TC MIN 000D
			Location ID	FS-MW-001A FS-MW-001A (14.5)-	FS-MW-002A	FS-MW-002A FS-MW-002A (11.5)-	FS-MW-002C FS-MW-002C (135)-	FS-MW-003A FS-MW-003A (14.5)-	FS-MW-003B FS-MW-003B (89.5)-	FS-MW-005A FS-MW-005A (14.5)-	FS-MW-005B FS-MW-005B (45.5)-	FS-MW-005C FS-MW-005C (82.5)-	FS-MW-007A FS-MW-007A	FS-MW-007B FS-MW-007B (55)-	FS-MW-007C FS-MW-007C (77.5)-	FS-MW-008B	FS-MW-008B FS-MW-008B (37.5)-
			Sample ID	07252019	DUP-07242019	07242019	07242019	07242019	07252019	07242019	07242019	07242019	(15)(07232019)	07242019	07242019	DUP-07232019	07232019
			Sample Date Sample Type	7/25/2019 N	7/24/2019 FD	7/24/2019 N	7/24/2019 N	7/24/2019 N	7/25/2019 N	7/24/2019 N	7/24/2019 N	7/24/2019 N	7/23/2019 N	7/24/2019 N	7/24/2019 N	7/23/2019 FD	7/23/2019 N
		V	alidated - Y/N	Y	Y	Ŷ	Y	Y	Y	Y	Y	Ŷ	Y	Y	Ŷ	Y	Y
	T		Depth	14.5	11.5	11.5	135	14.5	89.5	14.5	45.5	82.5	15	55	77.5	37.5	37.5
		NYDEC TOGS111 GA	NYDEC TOGS111 GA														
Analyte	Unit	GUIDANCE	STANDARD														
Semivolatile Organic Compounds (SVOCs) by USE	EPA Method	8270D SIM-ID															
1,4-Dioxane (P-Dioxane)	ug/l	NS	NS	0.2 UJ	0.2 UJ	0.2 UJ	0.2 U	0.2 UJ	0.2 U	0.2 UJ	2.8 J	1.8 J	0.2 U	1.9	2.8	3.7 J	3.7 J
Semivolatile Organic Compounds (SVOCs) by USE			NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,4,5-Trichlorophenol 2,4,6-Trichlorophenol	ug/l ug/l	NS NS	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,4-Dichlorophenol	ug/l	NS	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,4-Dimethylphenol	ug/1	50 NG	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,4-Dinitrophenol 2,4-Dinitrotoluene	ug/l ug/l	NS NS	5	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U
2,6-Dinitrotoluene	ug/1	NS	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Chloronaphthalene	ug/l	10	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Chlorophenol 2-Methylnaphthalene	ug/l ug/l	NS NS	NS NS	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U
2-Methylphenol (O-Cresol)	ug/1 ug/1	NS	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Nitroaniline	ug/1	NS	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitrophenol	ug/l	NS	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
3,3'-Dichlorobenzidine 3-Nitroaniline	ug/l ug/l	NS NS	5	5 U 10 U	5 U 10 U	5 U 10 U	5 U 10 U	5 U 10 U	5 U 10 U	5 U 10 U	5 U 10 U	5 U 10 U	5 U 10 U	5 U 10 U	5 U 10 U	5 U 10 U	5 U 10 U
4,6-Dinitro-2-Methylphenol	ug/1 ug/1	NS	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Bromophenyl Phenyl Ether	ug/l	NS	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Chloro-3-Methylphenol 4-Chloroaniline	ug/l ug/l	NS NS	NS 5	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U
4-Chlorophenyl Phenyl Ether	ug/1 ug/1	NS	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Methylphenol (P-Cresol)	ug/l	NS	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline	ug/1	NS	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitrophenol Acenaphthene	ug/l ug/l	NS 20	NS 20	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U
Acenaphthylene	ug/1	NS	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetophenone	ug/l	NS	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Anthracene	ug/l ug/l	50 NS	NS 7.5	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 UI	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U
Benzaldehyde	ug/1	NS	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzo(A)Anthracene	ug/l	0.002	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzo(A)Pyrene Benzo(B)Fluoranthene	ug/l ug/l	NS 0.002	0 NS	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U
Benzo(G,H,I)Perylene	ug/1 ug/1	NS	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzo(K)Fluoranthene	ug/l	0.002	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzyl Butyl Phthalate	ug/l	50	NS 5	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U
Biphenyl (Diphenyl) Bis(2-Chloroethoxy) Methane	ug/l ug/l	NS NS	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	ug/l	NS	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bis(2-Chloroisopropyl) Ether	ug/l	NS	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bis(2-Ethylhexyl) Phthalate Caprolactam	ug/l ug/l	NS NS	5 NS	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U
Carbazole	ug/1 ug/1	NS	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chrysene	ug/l	0.002	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibenz(A,H)Anthracene Dibenzofuran	ug/l ug/l	NS NS	NS NS	5 U 10 U	5 U 10 U	5 U 10 U	5 U 10 U	5 U 10 U	5 U 10 U	5 U 10 U	5 U 10 U	5 U 10 U	5 U 10 U	5 U 10 U	5 U 10 U	5 U 10 U	5 U 10 U
Diethyl Phthalate	ug/1 ug/1	50	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dimethyl Phthalate	ug/l	50	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Di-N-Butyl Phthalate Di-N-Octylphthalate	ug/l ug/l	NS 50	50 NS	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U
Fluoranthene	ug/1 ug/1	50	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Fluorene	ug/l	50	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Hexachlorobenzene	ug/l	NS	0.04	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Hexachlorobutadiene Hexachlorocyclopentadiene	ug/l ug/l	NS NS	0.5	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U
Hexachloroethane	ug/1 ug/1	NS	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Indeno(1,2,3-C,D)Pyrene	ug/l	0.002	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Isophorone Naphthalene	ug/l ug/l	50 10	NS NS	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U
Naphthalene Nitrobenzene	ug/1 ug/1	NS	0.4	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
N-Nitrosodi-N-Propylamine	ug/l	NS	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
N-Nitrosodiphenylamine	ug/l	50	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Pentachlorophenol Phenanthrene	ug/l ug/l	NS 50	1 NS	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U
Phenol	ug/1	NS	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Pyrene	ug/l	50	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U

Notes and Abbreviations ng/L - nanograms per liter mg/L - milligrams per liter U - Compound not detected J - Estimated value N - Primary sample FD - Field duplicate sample na - Sample not analyzed for this parameter NS - No standard Bold value indicates detected value



		Location ID	FS-MW-009C	FS-MW-011A	FS-MW-012A	FS-MW-012B	FS-MW-012C	FS-MW-013A	FS-MW-013B	FS-MW-1	FS-MW-3	FS-MW-4	FS-TMW-001	FS-TMW-003	FS-TMW-004
			FS-MW-009C	FS-MW-011A 18.5)-	FS-MW-012A	FS-MW-12B	FS-MW-012C	FS-MW-13A (15.5)-	FS-MW-13B (30.5)-	FS-MW-1	FS-MW-3	FS-MW-4	FS-TMW-001 (15)-	FS-TMW-003 (18.5)-	FS-TMW-004 (9.5
		Sample ID	(97.3)(07232019)	07242019	(12.5)(07232019)	(45)(07232019)	(62.5)(07232019)	07222019	07222019	(17.75)(07232019)	(14.25)(07232019)	(13.57)(07252019	07222019	07222019	07222019
		Sample Date	7/23/2019	7/24/2019	7/23/2019	7/23/2019	7/23/2019	7/22/2019	7/22/2019	7/23/2019	7/23/2019	7/25/2019	7/22/2019	7/22/2019	7/22/2019
		Sample Type	N	N	Ν	Ν	Ν	N	Ν	N	Ν	N	N	N	N
		Validated - Y/N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
		Depth	97.3	18.5	12.5	45	62.5	15.5	30.5	17.75	14.25	13.57	15	18.5	9.5
	NYDEC TOGS111 GA	NYDEC TOGS111 GA													
Analyte	Unit GUIDANCE	STANDARD													
	Child GOID/HVCL	SHINDIND						1			1				
Metals Aluminum	mg/l NS	NS	220	0.2 U	0.097 J	0.2 U	0.2 U	0.2 U	0.2 U	0.15 I	0.81	0.2 U	na	na	na
Antimony	mg/1 NS	0.003	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	na	na	na
Arsenic	mg/1 NS	0.025	0.031	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	na	na	na
Barium	mg/1 NS	1	0.89	0.092	0.046 U	0.021 U	0.1	0.076 J	0.057 J	0.039 U	0.047 U	0.038	na	na	na
Beryllium	mg/1 0.003	NS	0.029	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	na	na	na
Cadmium	mg/l NS	0.005	0.002 U	0.002 U	0.019	0.014	0.00051 J	0.00067 J	0.002 U	0.002 U	0.002 U	0.002 U	na	na	na
Calcium	mg/1 NS	NS	142	91.5	79.6 U	120	91.1	74 I	117 I	82.7 U	50.4 U	50.1	na	na	na
Chromium, Total	mg/l NS	0.05	0.077	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.0025 J	0.0018 J	0.004 U	na	na	na
Cobalt	mg/1 NS mg/1 NS	NS 0.2	0.048	0.004 U 0.0096 J	0.008	0.0042	0.00079 J 0.012	0.004 U 0.011	0.004 U 0.01 U	0.004 U 0.064	0.004 U 0.01 U	0.004 U 0.01 U	na 2.7	na 86.2	na 11.5
Copper Iron	mg/1 NS mg/1 NS	0.2	0.13 102	0.0096 J 0.05 U	0.24	2.3 0.038 I	0.012	0.011 0.05 U	0.01 U 0.05 U	0.064	1.2	0.01 U	2.7 na	86.2 na	11.5 na
Lead	mg/1 NS	0.025	0.2	0.05 U	0.0048 J	0.038 T	0.01 U	0.05 U	0.05 U	0.28 0.01 U	0.01 U	0.05 U 0.01 U	na	na	na
Magnesium	mg/l 35		63	13.6	18.3 U	22.1 U	20.5 U	15.8 J	22.4 J	16.2 U	7.6 U	6.7	na	na	na
Manganese	mg/1 NS	0.3	2 J	0.37	0.69 J	0.3 J	0.73 J	0.098 J	0.78 J	0.021 J	0.045 J	0.003 U	na	na	na
Mercury	mg/1 NS	0.0007	0.00058	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	na	na	na
Nickel	mg/l NS	0.1	0.082	0.0014 J	0.12	0.11	0.0021 J	0.0013 J	0.01 U	0.01 U	0.01 U	0.01 U	na	na	na
Potassium	mg/l NS	NS	22.1 J	4.5	7.5 J	7.2 J	3.3 UJ	4.6	4.2	4.4 J	3.5 UJ	3.6	na	na	na
Selenium Silver	mg/1 NS mg/1 NS	0.01 0.05	0.025 U 0.006 U	0.025 U 0.006 U	0.025 U 0.006 U	0.025 U 0.006 U	0.025 U 0.006 U	0.025 U 0.006 U	0.025 U 0.006 U	0.025 U 0.006 U	0.025 U 0.006 U	0.025 U 0.006 U	na	na na	na
Silver	mg/1 NS mg/1 NS	20	66.9 I	99.7	110 J	119 J	82.4 J	88 J	108 J	108 J	112 J	114	na na	na na	na na
Thallium	mg/1 0.0005	NS	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	na	na	na
Vanadium	mg/1 NS	NS	0.11	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	na	na	na
Zinc	mg/1 2	NS	0.38	0.01 U	0.47	0.44	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	na	na	na
Total Cyanide by USEPA Method 9012B															
Cvanide	mg/1 NS	0.2	0.01 U	0.01 U	0.01 U	0.0078 J	0.01 U	0.01 U	0.01 U	0.0055 J	0.0066 I	0.01 U	na	na	na
Weak Acid Dissociable Cyanide by Method SM4.	500	•	•	•			•		•				•		
Weak Acid Dissociable Cyanide	mg/1 NS	NS	0.01 U	0.01 U	0.01 UJ	0.01 U	0.01 U	0.01 UJ	0.01 UJ	0.01 U	0.0077 J	0.01 UJ	na	na	na
Pesticides by USEPA Method 8081B	0	•			· · · ·		•	· · · · ·		•				• •	
Aldrin	ug/l NS	NS	0.06 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U	na	na	na
Alpha Bhc (Alpha Hexachlorocyclohexane)	ug/1 NS	0.01	0.06 U	0.05 U	0.05 U	0.01 J	0.0097 I	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U	na	na	na
Alpha Endosulfan	0,			0.05 11	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U	na		na
	ug/1 NS	NS	0.06 U	0.05 U	0.05 U									na	110
Beta Bhc (Beta Hexachlorocyclohexane)	ug/l NS	NS 0.04	0.06 U 0.06 U	0.05 U 0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U	na	na na	na
Beta Bhc (Beta Hexachlorocyclohexane) Beta Endosulfan	ug/1 NS ug/1 NS	0.04 NS	0.06 U 0.06 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U			
Beta Endosulfan cis-Chlordane	ug/l         NS           ug/l         NS           ug/l         NS           ug/l         NS	0.04 NS NS	0.06 U 0.06 U 0.06 U	0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U	0.05 U 0.05 U	0.05 UJ 0.05 UJ	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	na	na	na
Beta Endosulfan cis-Chlordane Delta BHC (Delta Hexachlorocyclohexane)	ug/l         NS           ug/l         NS           ug/l         NS           ug/l         NS           ug/l         NS	0.04 NS NS 0.04	0.06 U 0.06 U 0.06 U 0.06 U	0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U	0.05 UJ 0.05 UJ 0.05 UJ	0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U	na na na na	na na na na	na na na na
Beta Endosulfan cis-Chlordane Delta BHC (Delta Hexachlorocyclohexane) Dieldrin	ug/l         NS           ug/l         NS           ug/l         NS           ug/l         NS           ug/l         NS           ug/l         NS	0.04 NS NS 0.04 0.004	0.06 U 0.06 U 0.06 U 0.06 U 0.06 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U	0.05 UJ 0.05 UJ 0.05 UJ 0.05 UJ	0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U	na na na na na	na na na na na	na na na na na
Beta Endosulfan cis-Chlordane Delta BHC (Delta Hexachlorocyclohexane) Dieldrin Endosulfan Sulfate	ug/l         NS	0.04 NS 0.04 0.004 NS	0.06 U 0.06 U 0.06 U 0.06 U 0.06 U 0.06 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 UJ 0.05 UJ 0.05 UJ 0.05 UJ 0.05 UJ	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	na na na na na na	na na na na na na na	na na na na na na
Beta Endosulfan cis-Chlordane Delta BHC (Delta Hexachlorocyclohexane) Dieldrin Endosulfan Sulfate Endrin	ug/l         NS	0.04 NS NS 0.04 0.004	0.06 U 0.06 U 0.06 U 0.06 U 0.06 U 0.06 U 0.06 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 UJ 0.05 UJ 0.05 UJ 0.05 UJ 0.05 UJ 0.05 UJ	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	na na na na na na na	na na na na na na na na	na na na na na na na
Beta Endosulfan cis-Chlordane Delta BHC (Delta Hexachlorocyclohexane) Dieldrin Endosulfan Sulfate Endrin Endrin Aldehyde	ug/l         NS	0.04 NS 0.04 0.004 NS 0	0.06 U 0.06 U 0.06 U 0.06 U 0.06 U 0.06 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 UJ 0.05 UJ 0.05 UJ 0.05 UJ 0.05 UJ	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	na na na na na na	na na na na na na na	na na na na na na
Beta Endosulfan cis-Chlordane Delta BHC (Delta Hexachlorocyclohexane) Dieldrin Endosulfan Sulfate	ug/l         NS	0.04 NS 0.04 0.004 NS 0 5	0.06 U 0.06 U 0.06 U 0.06 U 0.06 U 0.06 U 0.06 U 0.06 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 UJ 0.05 UJ 0.05 UJ 0.05 UJ 0.05 UJ 0.05 UJ 0.05 UJ	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	na na na na na na na na na	na na na na na na na na na	na na na na na na na
Beta Endosulfan cis-Chlordane Delta BHC (Delta Hexachlorocyclohexane) Dieldrin Endosulfan Sulfate Endrin Endrin Aldehyde Endrin Aldehyde Endrin Bhc (Lindane)	ug/l         NS	0.04 NS 0.04 0.004 NS 0 5 5	0.06 U 0.06 U 0.06 U 0.06 U 0.06 U 0.06 U 0.06 U 0.06 U 0.06 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 UJ 0.05 UJ	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U 0.05 U	na na na na na na na na na	na na na na na na na na na na	na na na na na na na na na
Beta Endosulfan cis-Chlordane Delta BHC (Delta Hexachlorocyclohexane) Dieldrin Endosulfan Sulfate Endrin Midehyde Endrin Aldehyde Endrin Ketone Gamma Bhc (Lindane) Heptachlor	ug/l         NS	0.04 NS 0.04 0.004 NS 0 5 5 0.05 0.05 0.04 0.03	0.06 U 0.06 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 UJ 0.05 UJ	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	na na na na na na na na na na na na na	na na na na na na na na na na na na na n	na na na na na na na na na na na na na
Beta Endosulfan cis-Chlordane Delta BHC (Delta Hexachlorocyclohexane) Dieldrin Endosulfan Sulfate Endrin Meleyde Endrin Aldehyde Endrin Aldehyde Endrin Ketone Gamma Bhc (Lindane) Heptachlor Epoxide Methoxychlor	ug/l         NS	0.04 NS 0.04 0.004 NS 0 5 5 0.05 0.05 0.04 0.03 35	0.06 U 0.06 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 UJ 0.05 UJ	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	na na na na na na na na na na na na na n	na na na na na na na na na na na na na n	na na na na na na na na na na na na na n
Beta Endosulfan cis-Chlordane Delta BHC (Delta Hexachlorocyclohexane) Deltdrin Endosulfan Sulfate Endrin Aldehyde Endrin Aldehyde Endrin Aldehyde Gamma Bhc (Lindane) Heptachlor Heptachlor Epoxide Methoxychlor P,P'-DDD	ug/l         NS	0.04 NS NS 0.04 NS 0 5 5 0.05 5 0.05 0.04 0.03 35 0.3	0.06 U 0.06 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 UJ 0.05 UJ	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	na na na na na na na na na na na na na n	na na na na na na na na na na na na na n	na na na na na na na na na na na na na n
Beta Endosulfan is-Chlordane Delta BHC (Delta Hexachlorocyclohexane) Dieldrin Endosulfan Sulfate Endrin Endrin Aldehyde Endrin Ketone Gamma Bhc (Lindane) Heptachlor Heptachlor Epoxide Methoxychlor 2,P*-DDD P,P-DDE	ug/l         NS	0.04 NS 0.04 0.004 NS 0 5 5 0.05 0.05 0.04 0.03 35 0.3 0.2	0.06 U 0.06 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 UJ 0.05 UJ	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	na na na na na na na na na na na na na n	na na na na na na na na na na na na na n	na na na na na na na na na na na na na n
Beta Endosulfan :is-Chlordane Delta BHC (Delta Hexachlorocyclohexane) Dieldrin Endosulfan Sulfate Endrin Aldehyde Endrin Aldehyde Endrin Ketone Gamma Bhc (Lindane) Heptachlor Epoxide Methoxychlor P,P-DDD P,P-DDD P,P-DDT	ug/l         NS	0.04 NS NS 0.04 0.004 NS 0 5 5 0.05 0.05 0.05 0.04 0.03 35 0.3 0.2 0.2	0.06 U 0.06 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 UJ 0.05 UJ	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	na na na na na na na na na na na na na n	na na na na na na na na na na na na na n	na na na na na na na na na na na na na n
Beta Endosulfan cis-Chlordane Delta BHC (Delta Hexachlorocyclohexane) Deldrin Endosulfan Sulfate Endrin Aldehyde Endrin Aldehyde Endrin Aldehyde Endrin Aldehyde Endrin Aldehyde Endrin Bhc (Lindane) Heptachlor Epoxide Wethoxychlor P,P-DDD P,P-DDD P,P-DDE P,P-DDT Toxaphene	ug/l         NS	0.04 NS NS 0.04 0.004 NS 0 5 5 0.05 0.05 0.05 0.04 0.03 35 0.3 0.2 0.2 0.2 0.06	0.06 U 0.06 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 UJ 0.05 UJ	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	na na na na na na na na na na na na na n	na na na na na na na na na na na na na n	na na na na na na na na na na na na na n
Beta Endosulfan cis-Chlordane Delta BHC (Delta Hexachlorocyclohexane) Deldrin Endosulfan Sulfate Endrin Aldehyde Endrin Aldehyde Endrin Aldehyde Endrin Aldehyde Endrin Aldehyde Endrin Aldehyde Gamma Bhc (Lindane) Heptachlor Epoxide Wethoxychlor P,P-DDD P,P-DDD P,P-DDE P,P-DDT Toxaphene rans-Chlordane	ug/l         NS	0.04 NS NS 0.04 0.004 NS 0 5 5 0.05 0.05 0.05 0.04 0.03 35 0.3 0.2 0.2	0.06 U 0.06 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 UJ 0.05 UJ	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	na na na na na na na na na na na na na n	na na na na na na na na na na na na na n	na na na na na na na na na na na na na n
Beta Endosulfan cis-Chlordane Delta BHC (Delta Hexachlorocyclohexane) Dieldrin Endosulfan Sulfate Endrin Aldehyde Endrin Aldehyde Endrin Aldehyde Endrin Aldehyde Gamma Bhc (Lindane) Heptachlor Eoxide Wethoxychlor P:P-DDD P:P-DDD P:P-DDT Foxaphene rans-Chlordane Polychlorined Biphenyls (PCBs) by USEPA Meth	ug/l         NS	0.04 NS NS 0.04 0.004 NS 0 5 5 0.05 5 0.05 0.04 0.03 35 0.3 0.2 0.2 0.2 0.06 NS	0.06 U 0.06 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 UJ 0.05 UJ	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	na na na na na na na na na na na na na n	na na na na na na na na na na na na na n	na na na na na na na na na na na na na n
Beta Endosulfan cis-Chlordane Delta BHC (Delta Hexachlorocyclohexane) Dieldrin Endosulfan Sulfate Endrin Endrin Aldehyde Endrin Ketone Camma Bhc (Lindane) Heptachlor Heptachlor Epoxide Methoxychlor 2,P-DDD 2,P-DDD 2,P-DDT Foxaphene rans-Chlordane Polychlorined Biphenyls (PCBs) by USEPA Meth PCB-1016 (Aroclor 1016)	ug/l         NS	0.04 NS NS 0.04 0.004 NS 0 5 5 5 0.05 0.05 0.05 0.04 0.03 35 0.3 0.2 0.2 0.2 0.2 0.2 0.2 0.06 NS	0.06 U 0.06 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 UJ 0.05 UJ	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U 0.5 U	0.05 U 0.05 U	na na na na na na na na na na na na na n	na na na na na na na na na na na na na n	na na na na na na na na na na na na na n
Beta Endosulfan cis-Chlordane Delta BHC (Delta Hexachlorocyclohexane) Dieldrin Endosulfan Sulfate Endrin Meleyde Endrin Aldehyde Endrin Aldehyde Endrin Aldehyde Endrin Ketone Gamma Bhc (Lindane) Heptachlor Epoxide Methoxychlor Heptachlor Epoxide Methoxychlor P,P-DDD P,P-DDD P,P-DDD P,P-DDD Toxaphene Trans-Chlordane Polychlorined Biphenyls (PCBs) by USEPA Meth PCB-1016 (Aroclor 1016) PCB-1021 (Aroclor 1221)	ug/l         NS	0.04 NS NS 0.04 0.004 NS 0 5 5 0.05 0.05 0.05 0.05 0.03 335 0.3 0.2 0.2 0.2 0.06 NS	0.06 U 0.06 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U 0.5 U	0.05 UJ 0.05 UJ 0.5 U 0.5 U 0.5 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U 0.5 U 0.5 U	0.05 U 0.05 U	na na na na na na na na na na na na na n	na na na na na na na na na na na na na n	na na na na na na na na na na na na na n
Beta Endosulfan cis-Chlordane Delta BHC (Delta Hexachlorocyclohexane) Dieldrin Endosulfan Sulfate Endrin Ketone Gamma Bhc (Lindane) Heptachlor Epoxide Methoxychlor P,P-DDD P,P-DDD P,P-DDD P,P-DDE P,P-DDT Toxaphene trans-Chlordane Polychlorined Biphenyls (PCBs) by USEPA Meth PCB-1016 (Aroclor 1016) PCB-1232 (Aroclor 1232)	ug/l         NS	0.04 NS NS 0.04 0.004 NS 0 5 5 5 0.05 0.05 0.05 0.04 0.03 35 0.3 0.2 0.2 0.2 0.2 0.2 0.2 0.06 NS	0.06 U 0.06 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U 0.5 U 0.5 U	0.05 U 0.05 U	0.05 UJ 0.05 UJ	0.05 U 0.05 U	0.05 U 0.05 U	0.05 U 0.05 U 0.5 U	0.05 U 0.05 U 0.5 U 0.5 U	na na na na na na na na na na na na na n	na na na na na na na na na na na na na n	na na na na na na na na na na na na na n
Beta Endosulfan cis-Chlordane Delta BHC (Delta Hexachlorocyclohexane) Dieldrin Endosulfan Sulfate Endrin Endrin Aldehyde Endrin Ketone	ug/l         NS           ug/l	0.04 NS NS 0.04 0.004 NS 0 5 5 0.05 0.05 0.05 0.04 0.03 35 0.3 0.2 0.2 0.2 0.06 NS 0.09 0.09 0.09	0.06 U 0.06 U 0.05 UJ 0.5 UJ 0.5 UJ 0.5 UJ	0.05 U 0.05 U 0.5 U 0.5 U 0.5 U 0.5 U	0.05 U 0.05 U 0.5 U 0.5 U 0.5 U	0.05 U 0.05 U 0.5 U 0.5 U 0.5 U 0.5 U	0.05 U 0.05 U 0.5 U 0.5 U 0.5 U 0.5 U	0.05 UJ 0.05 UJ 0.5 U 0.5 U	0.05 U 0.05 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U	0.05 U 0.05 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U	0.05 U 0.05 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U	0.05 U 0.05 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U	na na na na na na na na na na na na na n	na na na na na na na na na na na na na n	na na na na na na na na na na na na na n
Beta Endosulfan cis-Chlordane Delta BHC (Delta Hexachlorocyclohexane) Dieldrin Endosulfan Sulfate Endrin Endrin Aldehyde Endrin Aldehyde Endrin Aldehyde Endrin Ketone Gamma Bhc (Lindane) Heptachlor Foxide Methoxychlor P.P-DDD P.P-DDD P.P-DDD P.P-DDD P.P-DDD P.P-DDT Toxaphene trans-Chlordane Polychlorined Biphenyls (PCBs) by USEPA Meth PCB-1016 (Aroclor 1016) PCB-1221 (Aroclor 1221) PCB-1242 (Aroclor 1242)	ug/l         NS           ug/l	0.04 NS NS 0.04 0.004 NS 0 5 5 5 0.05 0.05 0.04 0.03 35 0.3 0.2 0.2 0.2 0.2 0.06 NS 0.09 0.09 0.09 0.09	0.06 U 0.06 U 0.05 UJ 0.5 UJ 0.5 UJ 0.5 UJ	0.05 U 0.05 U 0.5 U	0.05 U 0.05 U 0.5 U	0.05 U 0.05 U 0.5 U	0.05 U 0.05 U 0.5 U	0.05 UJ 0.05 UJ 0.5 U 0.5 U 0.5 U 0.5 U	0.05 U 0.05 U 0.5 U	0.05 U 0.05 U 0.5 U	0.05 U 0.05 U 0.5 U	0.05 U 0.05 U 0.5 U 0.5 U 0.5 U 0.5 U	na na na na na na na na na na na na na n	na na na na na na na na na na na na na n	na na na na na na na na na na na na na n

Notes and Abbreviations ng/L - nanograms per liter mg/L - miligrams per liter U - Compound not detected J - Estimated value N - Primary sample FD - Field duplicate sample na - Sample not analyzed for this parameter NS - No standard Bold value indicates detected value

Shade cell indiicates exceedanc NYSDEC TOGS111 - Standards



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			Location ID	FS-MW-009C	FS-MW-011A	FS-MW-012A	FS-MW-012B	FS-MW-012C	FS-MW-013A	FS-MW-013B	FS-MW-1	FS-MW-3	FS-MW-4	FS-TMW-001	FS-TMW-003	FS-TMW-004
			Sample ID	FS-MW-009C (97.3)(07232019)	FS-MW-011A 18.5)- 07242019	FS-MW-012A (12.5)(07232019)	FS-MW-12B (45)(07232019)	FS-MW-012C (62.5)(07232019)	FS-MW-13A (15.5)- 07222019	FS-MW-13B (30.5)- 07222019	FS-MW-1 (17.75)(07232019)	FS-MW-3 (14.25)(07232019)	FS-MW-4 (13.57)(07252019	FS-TMW-001 (15)- 07222019	FS-TMW-003 (18.5)- 07222019	FS-TMW-004 (9.5)- 07222019
			Sample Date	7/23/2019	7/24/2019	7/23/2019	7/23/2019	7/23/2019	7/22/2019	7/22/2019	7/23/2019	7/23/2019	7/25/2019	7/22/2019	7/22/2019	7/22/2019
			Sample Type	N	N	N	N	N	N	N	N	N	N	N	N	N
			Validated - Y/N	Ŷ	Ŷ	Y	Y	Y	Y	Y	Ŷ	Y	Y	Y	Ŷ	Ŷ
			Depth	97.3	18.5	12.5	45	62.5	15.5	30.5	17.75	14.25	13.57	15	18.5	9.5
		NYDEO	C NYDEC													
		TOGS111														
Analyte	Unit	GUIDAN	CE STANDARD													
Volatile Organic Compounds (VOCs) by USEPA M	ethod 82600	C														
1,1,1-Trichloroethane (TCA)	ug/l	NS	5	1 U	0.99 I	1 U	1 U	12	1 U	2.9	1 U	1 U	1 U	na	na	na
1,1,2,2-Tetrachloroethane	ug/l	NS	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	na	na	na
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/l	NS	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	na	na	na
1,1,2-Trichloroethane	ug/l	NS	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	na	na	na
1,1-Dichloroethane	ug/l	NS	5	1 U	1 U	1 U	1 U	79	1 U	3.9	1 U	1 U	1 U	na	na	na
1,1-Dichloroethene	ug/l	NS	5	1 U	1 U	1 U	1 U	2.2	1 U	1.7	1 U	1 U	1 U	na	na	na
1,2,4-Trichlorobenzene	ug/1	NS	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	na	na	na
1,2,4-Trimethylbenzene	ug/1	NS	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	na	na	na
1,2-Dibromo-3-Chloropropane 1,2-Dibromoethane (Ethylene Dibromide)	ug/l	NS NS	0.04	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U	na	na	na na
1,2-Dibromoethane (Ethylene Dibromide) 1,2-Dichlorobenzene	ug/l ug/l	NS	0.0006	10	1 U 1 U	10	1 U	1 U	10	10	10	10	10	na na	na	na na
1,2-Dichloroethane	ug/1 ug/1	NS	0.6	10	10	10	10	10	10	10	10	10	10	na	na	na
1,2-Dichloropropane	ug/1 ug/1	NS	1	10	1 U	1U	10	10	10	1 U	1 U	10	10	na	na	na
1,3,5-Trimethylbenzene (Mesitylene)	ug/1	NS	5	1 U	10	1U	10	1 U	1 U	1 U	1 U	1 U	10	na	na	na
1,3-Dichlorobenzene	ug/l	NS	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	na	na	na
1,4-Dichlorobenzene	ug/l	NS	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	na	na	na
2-Hexanone	ug/l	50	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	na	na	na
Acetone	ug/l	50	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	na	na	na
Benzene	ug/l	NS	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	na	na	na
Bromodichloromethane	ug/l	50	NS	1 U	0.53 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	na	na	na
Bromoform	ug/l	50	NS	1 UJ	1 U	1 UJ	1 UJ	1 UJ	1 U	1 U	1 UJ	1 UJ	1 U	na	na	na
Bromomethane	ug/1	NS	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	na	na	na
Carbon Disulfide Carbon Tetrachloride	ug/l ug/l	60 NS	NS 5	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U	0.19 J 1 U	1 U 1 U	1 U 1 U	0.21 J 1 U	1 U 1 U	na na	na na	na na
Chlorobenzene	ug/1 ug/1	NS	5	10	10	10	10	10	10	10	10	10	10	na	na	na
Chloroethane	ug/1	NS	5	10	10	10	1 U	10	10	1 U	1 U	1 U	1 U	na	na	na
Chloroform	ug/1	NS	7	10	2.1	0.73 [	0.88 J	10	0.64 J	0.42 J	0.66 J	0.63 [	10	na	na	na
Chloromethane	ug/l	NS	5	1 U	1 U	1U	1 U	1 U	1U	1 U	1 U	1 U	1 U	na	na	na
Cis-1,2-Dichloroethylene	ug/l	NS	5	1 U	1 U	1 U	1 U	1 U	1 U	2.9	1 U	1 U	1 U	na	na	na
Cis-1,3-Dichloropropene	ug/l	NS	0.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	na	na	na
Cyclohexane	ug/l	NS	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	na	na	na
Cymene	ug/l	NS	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	na	na	na
Dibromochloromethane	ug/l	50	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	na	na	na
Dichlorodifluoromethane	ug/1	NS	5	1 U	1 U	1U	1 U	1 U	1U	1 U	1 U	1 U	1 U	na	na	na
Ethylbenzene	ug/l	NS	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	na	na	na
Isopropylbenzene (Cumene) Methyl Acetate	ug/l ug/l	NS NS	5 NS	1 U 2.5 U	1 U 2.5 U	1 U 2.5 U	1 U 2.5 U	1 U 2.5 U	1 U 2.5 U	1 U 2.5 U	1 U 2.5 U	1 U 2.5 U	1 U 2.5 U	na na	na na	na na
Methyl Acetate Methyl Ethyl Ketone (2-Butanone)	ug/1 ug/1	50	NS	2.5 U 10 U	2.5 U 10 U	2.5 U 10 U	2.5 U 10 U	2.5 U 10 U	2.5 U 10 U	2.5 U 10 U	2.5 U 10 U	2.5 U 10 U	2.5 U 10 U	na	na	na
Methyl Isobutyl Ketone (2-Dutanone)	ug/1 ug/1	NS	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	na	na	na
Methyl i sobutyl record (4-Methyl-2-1 chanole)	ug/1	NS	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	na	na	na
Methylene Chloride	ug/1	NS	5	1 U	1 U	1 U	1 U	1 U	1U	1 U	1 U	1 U	1 U	na	na	na
Naphthalene	ug/l	10	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	na	na	na
N-Butylbenzene	ug/l	NS	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	na	na	na
N-Propylbenzene	ug/l	NS	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	na	na	na
Sec-Butylbenzene	ug/l	NS	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	na	na	na
Styrene	ug/l	NS	5	1 U	1 U	1U	1 U	1 U	1U	1 U	1 U	1 U	1 U	na	na	na
T-Butylbenzene	ug/1	NS	5	1 U	1 U	1 U	1 U	1 U	10	1 U	1 U	1 U	1 U	na	na	na
Tert-Butyl Methyl Ether	ug/1	10 NC	NS 5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	na	na	na
Tetrachloroethylene (PCE) Toluene	ug/l ug/l	NS NS	5	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U	1 U 1 U	na	na	na
Trans-1,2-Dichloroethene	ug/1 ug/1	NS	5	10	1 U 1 U	1 U 1 U	1 U	1 U	10	10	10	10	10	na na	na na	na na
Trans-1,2-Dichloropropene	ug/1 ug/1	NS	0.4	10	10	10	10	1 U	10	10	10	10	1 U	na	na	na
Trichloroethylene (TCE)	ug/1 ug/1	NS	5	1 U	15	1U	3.3	23	6.1	55	5.1	10	10	na	na	na
Trichlorofluoromethane	ug/1	NS	5	1 U	1U	1U	1U	1 U	1 U	1 U	1 U	1 U	10	na	na	na
Vinyl Chloride	ug/1	NS	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	na	na	na
Xylenes	ug/l	NS	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	na	na	na

Notes and Abbreviations ng/L - nanograms per liter mg/L - miligrams per liter U - Compound not detected J - Estimated value N - Primary sample FD - Field duplicate sample na - Sample not analyzed for this parameter NS - No standard Bold value indicates detected value

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			Location ID	FS-MW-009C FS-MW-009C	FS-MW-011A FS-MW-011A 18.5)-	FS-MW-012A FS-MW-012A	FS-MW-012B FS-MW-12B	FS-MW-012C FS-MW-012C	FS-MW-013A FS-MW-13A (15.5)-	FS-MW-013B FS-MW-13B (30.5)-	FS-MW-1 FS-MW-1	FS-MW-3 FS-MW-3	FS-MW-4 FS-MW-4	FS-TMW-001 FS-TMW-001 (15)-	FS-TMW-003 FS-TMW-003 (18.5)-	FS-TMW-004 FS-TMW-004 (9.5)-
			Sample ID	(97.3)(07232019)	07242019	(12.5)(07232019)	(45)(07232019)	(62.5)(07232019)	07222019	07222019	(17.75)(07232019)	(14.25)(07232019)	(13.57)(07252019	07222019	07222019	07222019
			Sample Date	7/23/2019	7/24/2019	7/23/2019	7/23/2019	7/23/2019	7/22/2019	7/22/2019	7/23/2019	7/23/2019	7/25/2019	7/22/2019	7/22/2019	7/22/2019
			Sample Type	Ν	N	N	N	N	N	N	N	N	N	N	N	N
			Validated - Y/N Depth	Y 97.3	Y 18.5	Y 12.5	Y 45	Y 62.5	Y 15.5	Y 30.5	Y 17.75	Y 14.25	Y 13.57	Y 15	Y 18.5	Y 9.5
		NYDEC	NYDEC	71.5	10.0	12.5	45	02.0	10.0	30.5	11.75	14.25	13.57	15	10.5	7.5
		TOGS111 GA	A TOGS111 GA													
Analyte	Unit	GUIDANCE	E STANDARD													
Semivolatile Organic Compounds (SVOCs) by USE								1	1	1	1				1	1
1,4-Dioxane (P-Dioxane)	ug/l	NS	NS	0.67 U	0.2 U	0.2 U	0.2 U	2.8 J	0.36	0.55	0.24	0.2 U	0.2 U	na	na	na
Semivolatile Organic Compounds (SVOCs) by USE			NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U			
2,4,5-Trichlorophenol 2,4,6-Trichlorophenol	ug/l ug/l	NS NS	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	na na	na na	na na
2,4-Dichlorophenol	ug/l	NS	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	na	na	na
2,4-Dimethylphenol	ug/l	50	1	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	na	na	na
2,4-Dinitrophenol 2,4-Dinitrotoluene	ug/l ug/l	NS NS	1 5	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	na na	na na	na na
2,6-Dinitrotoluene	ug/1 ug/1	NS	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	na	na	na
2-Chloronaphthalene	ug/l	10	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	na	na	na
2-Chlorophenol	ug/l	NS	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	na	na	na
2-Methylnaphthalene 2-Methylphenol (O-Cresol)	ug/l ug/l	NS NS	NS NS	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	na na	na na	na na
2-Nitroaniline	ug/1 ug/1	NS	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	na	na	na
2-Nitrophenol	ug/l	NS	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	na	na	na
3,3'-Dichlorobenzidine	ug/l	NS	5	5 U 10 U	5 U 10 U	5 U 10 U	5 U 10 U	5 U 10 U	5 U 10 U	5 U 10 U	5 U 10 U	5 U 10 U	5 U 10 U	na na	na	na
3-Nitroaniline 4,6-Dinitro-2-Methylphenol	ug/l ug/l	NS NS	5 NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	na na	na na	na na
4-Bromophenyl Phenyl Ether	ug/l	NS	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	na	na	na
4-Chloro-3-Methylphenol	ug/l	NS	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	na	na	na
4-Chloroaniline 4-Chlorophenyl Phenyl Ether	ug/l ug/l	NS NS	5 NS	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	na na	na na	na na
4-Methylphenol (P-Cresol)	ug/1	NS	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	na	na	na
4-Nitroaniline	ug/l	NS	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	na	na	na
4-Nitrophenol	ug/1	NS 20	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	na	na	na
Acenaphthene Acenaphthylene	ug/l ug/l	20 NS	20 NS	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	na na	na na	na na
Acetophenone	ug/l	NS	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	na	na	na
Anthracene	ug/l	50	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	na	na	na
Atrazine Benzaldehvde	ug/l ug/l	NS NS	7.5 NS	5 UJ 5 U	5 U 5 U	5 U 5 U	5 UJ 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 UJ 5 U	5 UJ 5 U	5 U 5 U	na na	na na	na na
Benzo(A)Anthracene	ug/1	0.002	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	na	na	na
Benzo(A)Pyrene	ug/l	NS	0	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	na	na	na
Benzo(B)Fluoranthene	ug/1	0.002	NS NS	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	na na	na	na
Benzo(G,H,I)Perylene Benzo(K)Fluoranthene	ug/l ug/l	NS 0.002	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	na	na na	na na
Benzyl Butyl Phthalate	ug/l	50	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	na	na	na
Biphenyl (Diphenyl)	ug/l	NS	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	na	na	na
Bis(2-Chloroethoxy) Methane Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	ug/l ug/l	NS NS	5	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	na na	na na	na na
Bis(2-Chloroisopropyl) Ether	ug/1	NS	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	na	na	na
Bis(2-Ethylhexyl) Phthalate	ug/l	NS	5	11	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	na	na	na
Caprolactam Carbazole	ug/l ug/l	NS NS	NS NS	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	na na	na na	na na
Chrysene	ug/1 ug/1	0.002	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	na	na	na
Dibenz(A,H)Anthracene	ug/l	NS	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	na	na	na
Dibenzofuran	ug/l	NS 50	NS	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	10 U 5 U	na	na	na
Diethyl Phthalate Dimethyl Phthalate	ug/l ug/l	50	NS NS	5 U	5 U 5 U	5 U	5 U	5 U	5 U 5 U	5 U 5 U	5 U	5 U	5 U	na na	na na	na na
Di-N-Butyl Phthalate	ug/l	NS	50	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	na	na	na
Di-N-Octylphthalate	ug/l	50	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	na	na	na
Fluoranthene Fluorene	ug/l ug/l	50 50	NS NS	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	na na	na na	na na
Hexachlorobenzene	ug/1 ug/1	NS	0.04	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	na	na	na
Hexachlorobutadiene	ug/l	NS	0.5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	na	na	na
Hexachlorocyclopentadiene	ug/l	NS	5	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U	na	na	na
Hexachloroethane Indeno(1,2,3-C,D)Pyrene	ug/l ug/l	NS 0.002	5 NS	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	na na	na na	na na
Isophorone	ug/1 ug/1	50	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	na	na	na
Naphthalene	ug/l	10	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	na	na	na
Nitrobenzene N-Nitrosodi-N-Propylamine	ug/l ug/l	NS NS	0.4 NS	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	na na	na na	na na
N-Nitrosodi-N-Propylamine N-Nitrosodiphenylamine	ug/1 ug/1	50	NS	5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U	5 U 5 U	5 U 5 U	5 U	5 U 5 U	5 U	na na	na na	na na
Pentachlorophenol	ug/l	NS	1	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	na	na	na
Phenanthrene	ug/l	50	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	na	na	na
Phenol Pyrene	ug/l ug/l	NS 50	1 NS	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	5 U 5 U	na na	na na	na na
	×6/ 1	50													*14	***

Notes and Abbreviations ng/L - nanograms per liter mg/L - milligrams per liter U - Compound not detected J - Estimated value N - Primary sample FD - Field duplicate sample na - Sample not analyzed for this parameter NS - No standard Bold value indicates detected value

Shade cell indiicates exceedanc NYSDEC TOGS111 - Standards



# Table 12 Summary of Oil Sample Analytical Results Former Oak Mitsui - 80 First Street Property

	Location ID Sample Date	WC-19FS 6/11/2019	WC-22FS 7/15/2019
	Sample Type	WC	WC
	Validated - Y/N	N	N
Analyte	Unit		
E537-LL			
NEtFOSAA	mg/kg	-	0.0097 U
NMeFOSAA	mg/kg	-	0.0097 U
Perfluorobutanesulfonic acid (PFBS)	mg/kg	-	0.0097 U
Perfluorobutanoic Acid	mg/kg	-	0.0097 U
Perfluorodecane Sulfonic Acid	mg/kg	-	0.0097 U
Perfluorodecanoic acid (PFDA)	mg/kg	-	0.0097 U
Perfluorododecanoic acid (PFDoA)	mg/kg	-	0.0097 U
Perfluoroheptane Sulfonate (PFHPS)	mg/kg	-	0.0097 U
Perfluoroheptanoic acid (PFHpA)	mg/kg	-	0.0097 U
Perfluorohexanesulfonic acid (PFHxS)	mg/kg	-	0.0097 U
Perfluorohexanoic acid (PFHxA)	mg/kg	-	0.0097 U
Perfluorononanoic acid (PFNA)	mg/kg	-	0.0097 U
Perfluorooctane Sulfonamide (FOSA)	mg/kg	-	0.0097 U
Perfluorooctanesulfonic acid (PFOS)	mg/kg	-	0.0024 U
Perfluorooctanoic acid (PFOA)	mg/kg	-	0.0016
Perfluoropentanoic Acid (PFPeA)	mg/kg	-	0.0097 U
Perfluorotetradecanoic acid (PFTA)	mg/kg	-	0.0097 U
Perfluorotridecanoic Acid (PFTriA)	mg/kg	-	0.0097 U
Perfluoroundecanoic Acid (PFUnA)	mg/kg	-	0.0097 U
SODIUM 1H,1H,2H,2H-PERFLUORODECANE SUI	LFONATE (8 mg/kg	-	0.0097 U
SODIUM 1H,1H,2H,2H-PERFLUOROOCTANE SUI	.FONATE (6 mg/kg	-	0.0097 U
NY310-13			
Gasoline Components	mg/kg	200 U	-
Kerosene	mg/kg	500 U	-
Motor Oils	mg/kg	200,000	-
PHC As #2 Fuel Oils C10-C23 #2 Diesel, #2 Fuel Oil	mg/kg	500 U	-
PHC As Heavy/Residual Fuel Oils Fuel Oils #4	mg/kg	500 U	
PHC As Heavy/Residual Fuel Oils Fuel Oils #6			-
The ris fleavy/ Residual Factoris Factoris #6	mg/kg	500 U	-
The risticavy/residual rule ons rule ons wo	mg/kg mg/kg	500 U 130,000	-
	0. 0		-
	0. 0		-
SW6010C, Total	mg/kg	130,000	-
SW6010C, Total Aluminum	mg/kg	<b>130,000</b> 9.9 U	-
SW6010C, Total Aluminum Antimony	mg/kg mg/kg	<b>130,000</b> 9.9 U 14.8 U	-
<b>SW6010C, Total</b> Aluminum Antimony Arsenic	mg/kg mg/kg mg/kg	<b>130,000</b> 9.9 U 14.8 U 2 U	-
<b>SW6010C, Total</b> Aluminum Antimony Arsenic Barium	mg/kg mg/kg mg/kg mg/kg mg/kg	<ul> <li>130,000</li> <li>9.9 U</li> <li>14.8 U</li> <li>2 U</li> <li>0.27 J</li> </ul>	
<b>SW6010C, Total</b> Aluminum Antimony Arsenic Barium Beryllium	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	<ul> <li>130,000</li> <li>9.9 U</li> <li>14.8 U</li> <li>2 U</li> <li>0.27 J</li> <li>0.2 U</li> </ul>	
SW6010C, Total Aluminum Antimony Arsenic Barium Beryllium Cadmium	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	<ul> <li>130,000</li> <li>9.9 U</li> <li>14.8 U</li> <li>2 U</li> <li>0.27 J</li> <li>0.2 U</li> <li>0.2 U</li> </ul>	
SW6010C, Total Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	<ul> <li>130,000</li> <li>9.9 U</li> <li>14.8 U</li> <li>2 U</li> <li>0.27 J</li> <li>0.2 U</li> <li>0.2 U</li> <li>58.1 B</li> </ul>	
SW6010C, Total Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium, Total Cobalt Copper	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	<ul> <li>9.9 U</li> <li>14.8 U</li> <li>2 U</li> <li>0.27 J</li> <li>0.2 U</li> <li>0.2 U</li> <li>58.1 B</li> <li>0.49 U</li> <li>0.49 U</li> <li>0.49 U</li> <li>1.0 B</li> </ul>	
SW6010C, Total Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium, Total Cobalt Copper Iron	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	<ul> <li>130,000</li> <li>9.9 U</li> <li>14.8 U</li> <li>2 U</li> <li>0.27 J</li> <li>0.2 U</li> <li>0.2 U</li> <li>58.1 B</li> <li>0.49 U</li> <li>0.49 U</li> <li>1.0 B</li> <li>16.4 B</li> </ul>	-
SW6010C, Total Aluminum Antimony Arsenic Barium Beryllium Cadmium Cadium Chromium, Total Cobalt Copper Iron Lead	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	<ul> <li>130,000</li> <li>9.9 U</li> <li>14.8 U</li> <li>2 U</li> <li>0.27 J</li> <li>0.2 U</li> <li>0.2 U</li> <li>58.1 B</li> <li>0.49 U</li> <li>0.49 U</li> <li>1.0 B</li> <li>16.4 B</li> <li>0.99 U</li> </ul>	-
SW6010C, Total Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium, Total Cobalt Copper Iron Lead Magnesium	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	<ul> <li>130,000</li> <li>9.9 U</li> <li>14.8 U</li> <li>2 U</li> <li>0.27 J</li> <li>0.2 U</li> <li>0.2 U</li> <li>58.1 B</li> <li>0.49 U</li> <li>0.49 U</li> <li>1.0 B</li> <li>16.4 B</li> <li>0.99 U</li> <li>11.4 J</li> </ul>	- - -
SW6010C, Total Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium, Total Cobalt Copper Iron Lead Magnesium Manganese	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	<ul> <li>130,000</li> <li>9.9 U</li> <li>14.8 U</li> <li>2 U</li> <li>0.27 J</li> <li>0.2 U</li> <li>0.2 U</li> <li>58.1 B</li> <li>0.49 U</li> <li>0.49 U</li> <li>1.0 B</li> <li>16.4 B</li> <li>0.99 U</li> <li>11.4 J</li> <li>2.7 B</li> </ul>	- - -
SW6010C, Total Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium, Total Cobalt Copper Iron Lead Magnesium Manganese Nickel	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	<ul> <li>9.9 U</li> <li>14.8 U</li> <li>2 U</li> <li>0.27 J</li> <li>0.2 U</li> <li>0.2 U</li> <li>58.1 B</li> <li>0.49 U</li> <li>0.49 U</li> <li>1.0 B</li> <li>16.4 B</li> <li>0.99 U</li> <li>11.4 J</li> <li>2.7 B</li> <li>4.9 U</li> </ul>	- - -
SW6010C, Total Aluminum Antimony Arsenic Barium Beryllium Cadmium Calcium Chromium, Total Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	<ul> <li>130,000</li> <li>9.9 U</li> <li>14.8 U</li> <li>2 U</li> <li>0.27 J</li> <li>0.2 U</li> <li>0.2 U</li> <li>58.1 B</li> <li>0.49 U</li> <li>0.49 U</li> <li>1.0 B</li> <li>16.4 B</li> <li>0.99 U</li> <li>11.4 J</li> <li>2.7 B</li> <li>4.9 U</li> <li>29.6 U</li> </ul>	
SW6010C, Total Aluminum Antimony Arsenic Barium Beryllium Cadrium Calcium Chromium, Total Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	<ul> <li>130,000</li> <li>9.9 U</li> <li>14.8 U</li> <li>2 U</li> <li>0.27 J</li> <li>0.2 U</li> <li>0.2 U</li> <li>58.1 B</li> <li>0.49 U</li> <li>0.49 U</li> <li>1.0 B</li> <li>16.4 B</li> <li>0.99 U</li> <li>11.4 J</li> <li>2.7 B</li> <li>4.9 U</li> <li>29.6 U</li> <li>3.9 U</li> </ul>	- - -
SW6010C, Total Aluminum Antimony Arsenic Barium Beryllium Cadrium Cadrium Calcium Chromium, Total Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	<ul> <li>130,000</li> <li>9.9 U</li> <li>14.8 U</li> <li>2 U</li> <li>0.27 J</li> <li>0.2 U</li> <li>0.2 U</li> <li>58.1 B</li> <li>0.49 U</li> <li>0.49 U</li> <li>1.0 B</li> <li>16.4 B</li> <li>0.99 U</li> <li>11.4 J</li> <li>2.7 B</li> <li>4.9 U</li> <li>29.6 U</li> <li>3.9 U</li> <li>0.59 U</li> </ul>	
SW6010C, Total Aluminum Antimony Arsenic Barium Beryllium Cadrium Cadrium Calcium Chromium, Total Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium Silver Sodium	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	<ul> <li>130,000</li> <li>9.9 U</li> <li>14.8 U</li> <li>2 U</li> <li>0.27 J</li> <li>0.2 U</li> <li>58.1 B</li> <li>0.49 U</li> <li>0.49 U</li> <li>1.0 B</li> <li>16.4 B</li> <li>0.99 U</li> <li>11.4 J</li> <li>2.7 B</li> <li>4.9 U</li> <li>29.6 U</li> <li>3.9 U</li> <li>0.59 U</li> <li>51.9 J</li> </ul>	
SW6010C, Total Aluminum Antimony Arsenic Barium Beryllium Cadrium Cadrium Calcium Chromium, Total Cobalt Copper Iron Lead Magnesium Manganese Nickel Potassium Selenium	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	<ul> <li>130,000</li> <li>9.9 U</li> <li>14.8 U</li> <li>2 U</li> <li>0.27 J</li> <li>0.2 U</li> <li>0.2 U</li> <li>58.1 B</li> <li>0.49 U</li> <li>0.49 U</li> <li>1.0 B</li> <li>16.4 B</li> <li>0.99 U</li> <li>11.4 J</li> <li>2.7 B</li> <li>4.9 U</li> <li>29.6 U</li> <li>3.9 U</li> <li>0.59 U</li> </ul>	

### SW7471B

	Location ID Sample Date Sample Type Validated - Y/N	WC-19FS 6/11/2019 WC N	WC-22FS 7/15/2019 WC N
		1	
Analyte Mercury	Unit mg/kg	0.02 U	-
-	0. 0		
SW8081B Aldrin	mg/kg	6.7 U	_
Alpha Bhc (Alpha Hexachlorocyclohexane)	mg/kg	6.7 U	-
Alpha Endosulfan	mg/kg	6.7 U	-
Beta Bhc (Beta Hexachlorocyclohexane)	mg/kg	6.7 U	-
Beta Endosulfan	mg/kg	6.7 U	-
cis-Chlordane	mg/kg	6.7 U	-
Delta BHC (Delta Hexachlorocyclohexane)	mg/kg	6.7 U	-
Dieldrin	mg/kg	6.7 U	-
Endosulfan Sulfate	mg/kg	6.7 UTH	-
Endrin	mg/kg	6.7 U	-
Endrin Aldehyde	mg/kg	6.7 U	-
Endrin Ketone	mg/kg	6.7 U	-
Gamma Bhc (Lindane)	mg/kg	6.7 U	-
Heptachlor	mg/kg	6.7 U	-
Heptachlor Epoxide	mg/kg	6.7 U	-
Methoxychlor	mg/kg	6.7 U	-
P,P'-DDD	mg/kg	6.7 U	-
P,P'-DDE	mg/kg	6.7 U	-
P,P'-DDT Toxaphene	mg/kg	6.7 U 6.7 U	-
trans-Chlordane	mg/kg mg/kg	6.7 U	-
	111 <u>6</u> / 14 <u>6</u>	0.7 G	
5W8082A			
PCB-1016 (Aroclor 1016)	mg/kg	4.2 U	-
PCB-1221 (Aroclor 1221)	mg/kg	4.2 U	-
PCB-1232 (Aroclor 1232)	mg/kg	4.2 U	-
PCB-1242 (Aroclor 1242)	mg/kg	4.2 U	-
PCB-1248 (Aroclor 1248)	mg/kg	4.2 U	-
PCB-1254 (Aroclor 1254)	mg/kg	4.2 U	-
PCB-1260 (Aroclor 1260)	mg/kg	4.2 U	-
5W8260C			
1,1,1-Trichloroethane (TCA)	mg/kg	0.1 U	-
1,1,2,2-Tetrachloroethane	mg/kg	0.1 U	-
1,1,2-Trichloro-1,2,2-Trifluoroethane	mg/kg	0.1 U	-
1,1,2-Trichloroethane	mg/kg	0.1 U	-
1,1-Dichloroethane	mg/kg	0.1 U	-
1,1-Dichloroethene	mg/kg	0.1 U	-
1,2,4-Trichlorobenzene	mg/kg	0.1 UT	-
1,2,4-Trimethylbenzene	mg/kg	0.1 U	-
1,2-Dibromo-3-Chloropropane	mg/kg	0.1 U	-
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.1 U	-
1,2-Dichlorobenzene	mg/kg	0.1 U	-
1,2-Dichloroethane	mg/kg	0.1 U	-
1,2-Dichloropropane	mg/kg	0.1 U	-
1,3,5-Trimethylbenzene (Mesitylene) 1,3-Dichlorobenzene	mg/kg	0.1 U	-
1,3-Dichlorobenzene	mg/kg mg/kg	0.1 U 0.1 U	-
2-Hexanone	mg/kg	0.1 U 0.5 U	-
Acetone	mg/kg	0.5 U	-
Benzene	mg/kg	0.1 U	-
Bromodichloromethane	mg/kg	0.1 U	-
Bromoform	mg/kg	0.1 U	-
Bromomethane	mg/kg	0.1 U	-
Carbon Disulfide	mg/kg	0.1 U	-
Carbon Tetrachloride	mg/kg	0.1 U	-
Chlorobenzene	mg/kg	0.1 U	-
Chloroethane	mg/kg	0.1 U	-
Chloroform	mg/kg	0.1 U	-
Chloromethane	mg/kg	0.1 U	-

	Location ID Sample Date Sample Type Validated - Y/N	WC-19FS 6/11/2019 WC N	WC-22FS 7/15/2019 WC N
Analyte	Unit		
Cis-1,2-Dichloroethylene	mg/kg	0.1 U	-
Cis-1,3-Dichloropropene	mg/kg	0.1 U	-
Cyclohexane	mg/kg	0.1 U	-
Cymene	mg/kg	0.1 U	_
Dibromochloromethane	mg/kg	0.1 U	_
Dichlorodifluoromethane	mg/kg	0.1 U	_
Ethylbenzene	0. 0	0.1 U	
	mg/kg		-
Isopropylbenzene (Cumene)	mg/kg	0.1 U	-
Methyl Acetate	mg/kg	0.5 UTL	-
Methyl Ethyl Ketone (2-Butanone)	mg/kg	0.5 U	-
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	mg/kg	0.5 U	-
Methylcyclohexane	mg/kg	0.1 U	-
Methylene Chloride	mg/kg	0.1 U	-
Naphthalene	mg/kg	0.1 UT	-
N-Butylbenzene	mg/kg	0.1 U	-
N-Propylbenzene	mg/kg	0.1 U	-
Sec-Butylbenzene	mg/kg	0.1 U	-
Styrene	mg/kg	0.1 U	-
T-Butylbenzene	mg/kg	0.1 U	-
Tert-Butyl Methyl Ether	mg/kg	0.1 U	_
Tetrachloroethylene (PCE)	mg/kg	0.1 U	_
Toluene			-
	mg/kg	0.1 U	-
Trans-1,2-Dichloroethene	mg/kg	0.1 U	-
Trans-1,3-Dichloropropene	mg/kg	0.1 U	-
Trichloroethylene (TCE)	mg/kg	0.1 U	-
Trichlorofluoromethane	mg/kg	0.1 U	-
Vinyl Chloride	mg/kg	0.1 U	-
Xylenes	mg/kg	0.2 U	-
SW8270D			
1,4-Dioxane (P-Dioxane)	mg/kg	1700 U	-
2,4,5-Trichlorophenol	mg/kg	1400 U	-
2,4,6-Trichlorophenol	mg/kg	1,400 UTH	-
2,4-Dichlorophenol	mg/kg	1,400 UTHT	-
2,4-Dimethylphenol	mg/kg	1,400 UTH	-
2,4-Dinitrophenol	mg/kg	14000 U	-
2,4-Dinitrotoluene	mg/kg	1,400 UTH	-
2.6-Dinitrotoluene	0. 0	1,400 UTHT	_
2-Chloronaphthalene	mg/kg	1,400 UTH	_
	0, 0	1400 U	-
2-Chlorophenol	mg/kg		-
2-Methylnaphthalene	mg/kg	1400 U	-
2-Methylphenol (O-Cresol)	mg/kg	1400 U	-
2-Nitroaniline	mg/kg	2,800 UTH	-
2-Nitrophenol	mg/kg	1400 U	-
3,3'-Dichlorobenzidine	mg/kg	2,800 UTH	-
3-Nitroaniline	mg/kg	2800 U	-
4,6-Dinitro-2-Methylphenol	mg/kg	2,800 UTHT	-
4-Bromophenyl Phenyl Ether	mg/kg	1,400 UTHT	-
4-Chloro-3-Methylphenol	mg/kg	1,400 UTH	-
4-Chloroaniline	mg/kg	1400 U	-
4-Chlorophenyl Phenyl Ether	mg/kg	1,400 UTH	-
4-Methylphenol (P-Cresol)	mg/kg	2800 U	-
4-Nitroaniline	mg/kg	2800 U	-
4-Nitrophenol	0. 0	2800 U 2800 U	-
*	mg/kg		-
Acenaphthene	mg/kg	1,400 UTH	-
Acenaphthylene	mg/kg	1,400 UTH	-
Acetophenone	mg/kg	1,400 UTH	-
Anthracene	mg/kg	1,400 UTH	-
Atrazine	mg/kg	1400 U	-
Benzaldehyde	mg/kg	1400 U	-
		1,400 UT	_
Benzo(A)Anthracene	mg/kg	1/100 011	
Benzo(A)Anthracene Benzo(A)Pyrene	mg/kg	1,400 UT	-

	Location ID Sample Date Sample Type Validated - Y/N	WC-19FS 6/11/2019 WC N	WC-22FS 7/15/2019 WC N
Analyte	Unit		
Benzo(G,H,I)Perylene	mg/kg	1,400 UT	-
Benzo(K)Fluoranthene	mg/kg	1,400 UTH	-
Benzyl Butyl Phthalate	mg/kg	1,400 UT	-
Biphenyl (Diphenyl)	mg/kg	1,400 UTH	-
Bis(2-Chloroethoxy) Methane	mg/kg	1400 U	-
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	mg/kg	1400 U	-
Bis(2-Chloroisopropyl) Ether	mg/kg	1400 U	-
Bis(2-Ethylhexyl) Phthalate	mg/kg	1,400 UT	-
Caprolactam	mg/kg	1400 U	-
Carbazole	mg/kg	1,400 UTH	-
Chrysene	mg/kg	1,400 UTH	-
Dibenz(A,H)Anthracene	mg/kg	1,400 UTHT	-
Dibenzofuran	mg/kg	1,400 UTH	-
Diethyl Phthalate	mg/kg	1,400 UTH	-
Dimethyl Phthalate	mg/kg	1,400 UTH	-
Di-N-Butyl Phthalate	mg/kg	1,400 UTH	-
Di-N-Octylphthalate	mg/kg	1400 U	-
Fluoranthene	mg/kg	1,400 UTH	-
Fluorene	mg/kg	1,400 UTHT	-
Hexachlorobenzene	mg/kg	1,400 UTHT	-
Hexachlorobutadiene	mg/kg	1,400 UTH	-
Hexachlorocyclopentadiene	mg/kg	1400 U	-
Hexachloroethane	mg/kg	1400 U	-
Indeno(1,2,3-C,D)Pyrene	mg/kg	1,400 UTH	-
Isophorone	mg/kg	1,400 UTHT	-
Naphthalene	mg/kg	1400 U	-
Nitrobenzene	mg/kg	1,400 UTH	-
N-Nitrosodi-N-Propylamine	mg/kg	1,400 UTH	-
N-Nitrosodiphenylamine	mg/kg	1,400 UT	-
Pentachlorophenol	mg/kg	2,800 UTH	-
Phenanthrene	mg/kg	1,400 UTH	-
Phenol	mg/kg	1400 U	-
Pyrene	mg/kg	1400 U	-
SW9012			
Cyanide	mg/kg	0.01 U	-
WBLACK			
Total Organic Carbon	mg/kg	79,900	-

#### Notes:

< = Compound not detected at concentrations above the laboratory reporting detection limit.
The laboratory reporting detection limit is shown.
Empty cells = not analyzed
WC = Waste Characterization
Units are in mg/kg = MILLIGRAMS PER KILOGRAM

### Table 13 Summary of Analytical Methods Former Oak Mitsui- 80 First



Analytical		Method		Method
Parameter	Matrix	Number	Method Title	Reference
PFAS	Aqueous	537 (modified)	Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid	
			Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry	1
			(LC/MS/MS) Version 1.1	
VOCs	Aqueous	8260C	Volatile Organic Compounds by Gas Chromatography/ Mass Spectrometry	2
SVOCs	Aqueous	8270D	Semivolatile Organic Compounds by Gas Chromatography/ Mass Spectrometry	2
SVOCs	Aqueous	8270DSIM	Semivolatile Organic Compounds by Gas Chromatography/ Mass Spectrometry	2
			(Selected Ion Monitoring)	2
Pest	Aqueous	8081B	Organochlorine Pesticides by Gas Chromatography	2
PCBs	Aqueous	8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	2
Metals	Aqueous	6010C	Inductively Coupled Plasma-Optical Emission Spectrometry (ICP-AES)	2
Mercury	Aqueous	7470A	Mercury in Liquid Waste (Manual Cold-Vapor Technique)	2
Cyanide	Aqueous	9012B	Total and Amenable Cyanide (Automated Colorimetric, With Off-Line Distillation)	2
				2
Cyanide	Aqueous	SM4500-CN-I	Weak Acid Dissociable Cyanide (Automated Colorimetric, With Off-Line	2
-	-		Distillation)	3
TOC	Aqueous	9060	Determination of Total Organic Carbon	2
pН	Aqueous	9040C	pH electrometric Measurement	2

### Notes and Abbreviations

1 - Methods for the Determination of Organic Compounds in Drinking Water - Supplement III

2 - USEPA Test Methods for Evaluating Solid Waste: Physical/Chemical Methods (SW-846)

3 - American Society for Testing and Materials. Research Rep. D2036:19-1131

PFAS - Per- and Polyfluoroalkyl Substances

VOCs - Volatile Organic Compounds

SVOCs - Semivolatile Organic Compounds

Pesticides - Pesticide Organic Compounds

PCBs - Polychlorinated Biphenyl Compounds

TOC - Total Organic Carbon

### Oak Mitsui, 80 First Street, Hoosick Falls, NY Site Characterization Report Summary of Field Duplicate Samples – Relative Percent Difference (RPD) (RPD Values Greater Than 20%)

Analyte	SOIL-S142 Concentration (mg/kg)	SOIL-DUP103 Concentration (mg/kg)	% RPD
Mercury	0.1	0.14	33.3
Thallium	0.468 J	0.675 J	36.2
Perfluorooctanoic acid (PFOA)	0.000973 J	0.000733 J	28.1

### SOIL-S142 and SOIL-DUP103

# SOIL-SC007(8'-12') and SOIL-DUP-SC001

Analyte	SOIL-SC007(8'-12') Concentration (mg/kg)	SOIL-DUP-SC001 Concentration (mg/kg)	% RPD
Selenium	0.655	0.277	81.1
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2FTS)	0.33 J	1.19	113.2

### SOIL-SC020(8'-12') and SOIL-DUP-SC002

Analyte	SOIL-SC020(8'-12') Concentration (mg/kg)	SOIL-DUP-SC002 Concentration (mg/kg)	% RPD
Aluminum	5,150	6,710	26.3
Beryllium	0.162 J	0.246 J	41.2
Cadmium	1.92	1.33	36.3
Copper	156	76	69.0
Iron	79,600	50,100	45.5
Lead	242	36.7	147.3
Magnesium	1,730	2,610	40.6
Manganese	601	339	55.7
Mercury	0.081	0.108	28.6
Nickel	27.1	18.8	36.2
Vanadium	9.57	12	22.5
Zinc	628	150	122.9
Benzene	0.0029	0.058	181
Ethylbenzene	0.00032 J	0.018 J	193
Methylcyclohexane	0.00046 J	0.048 J	196
Toluene	0.0016	0.041 J	185
Perfluorooctanoic acid (PFOA)	0.000804	0.000636	23.3
2-Methylnaphthalene	1.5	5.7	116.7
2-Methylphenol	0.15 J	0.28 J	60.5
3-Methylphenol/4-Methylphenol	0.57	0.93 J	48
Acenaphthene	12	55	128.4
Acenaphthylene	8.6	27	103.4
Anthracene	2.9	100	188.7
Benzo(a)anthracene	46	150	106.1
Benzo(a)pyrene	40	120	100
Benzo(b)fluoranthene	49	150	101.5
Benzo(g,h,i)perylene	23	66	96.6
Benzo(k)fluoranthene	15	32	72.3
Biphenyl	0.84	4.6	138.2
Carbazole	3	11	114.3
Chrysene	36	120	107.7
Dibenzo(a,h)anthracene	4.7	1.6	98.4
Dibenzofuran	5.6	29	135.3
Fluoranthene	120	390	105.9
Fluorene	12	59	132.4
Indeno(1,2,3-cd)pyrene	27	77	96.2
Naphthalene	6.1	16	89.6
Phenanthrene	74	350	130.2
Phenol	0.49	0.78 J	45.7
Pyrene	90	300	107.7

SOIL-SC032(4'-8') and SOIL-DUP104

Analyte	SOIL-SC032(4'-8') Concentration (mg/kg)	SOIL-DUP104 Concentration (mg/kg)	% RPD
Arsenic	5.04	7.35	37.3
Perfluoroheptanoic acid (PFHpA)	0.134 J	0.086 J	43.6